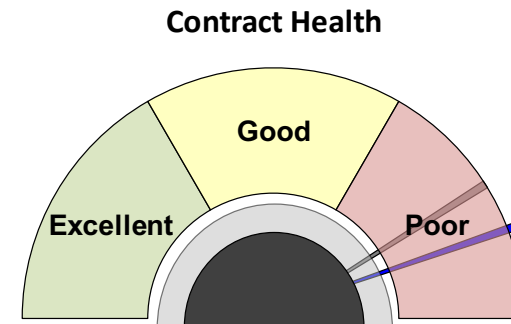




July 2021 Monthly Progress Report

DBB 171 – West Oahu Stations Group

Description	Current Period (Jul-2021)			Total CPP	Prior Month Change
	FFGA	N/A	N/A		
1. Original Contract	56,088,470	-	-	56,088,470	-
2. Approved Change Orders	29,429,212	-	-	29,429,212	-
3. Current Contract Value (1+2)	85,517,682	-	-	85,517,682	-
4. Pending Changes	-	-	-	-	-
5. Potential Changes	10,134,581	-	-	10,134,581	(850,179)
6. Potential Claims	400,000	-	-	400,000	-
7. Non-Contractual Expenses	-	-	-	-	-
8. Total Forecast (3+4+5+6+7)	96,052,263	-	-	96,052,263	(850,179)



Contract NTP Date

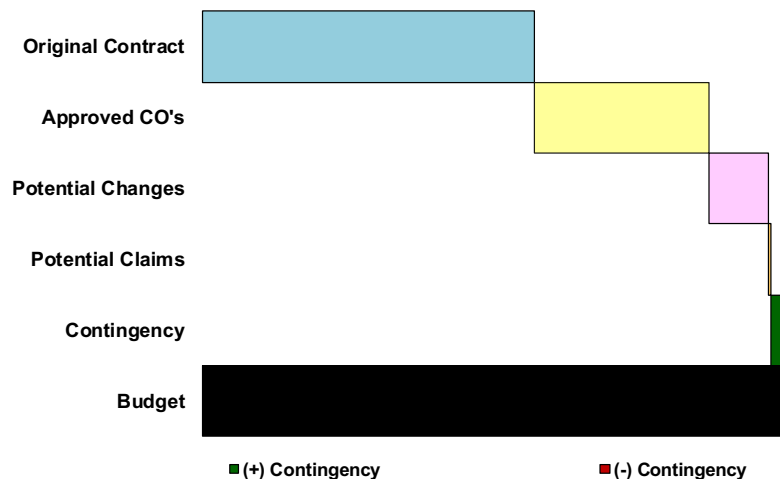
October-15

MPSS Substantial Completion Date

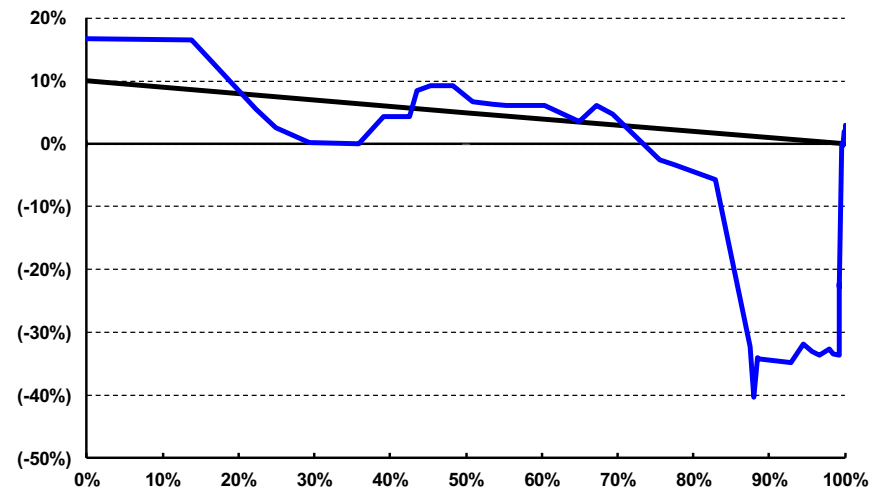
May-20

Contract Status

Budget vs EAC Forecast Waterfall

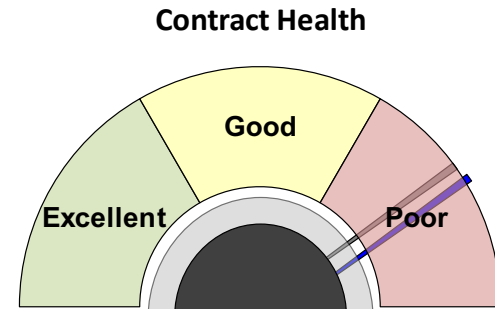


Remaining Allocated Contingency vs FTA Minimum



DBB 271 – Farrington Highway Stations Group

Description	Current Period (Jul-2021)			Total CPP	Prior Month Change
	FFGA	N/A	N/A		
1. Original Contract	78,999,000	-	-	78,999,000	-
2. Approved Change Orders	37,513,971	-	-	37,513,971	-
3. Current Contract Value (1+2)	116,512,971	-	-	116,512,971	-
4. Pending Changes	(261,256)	-	-	(261,256)	(261,256)
5. Potential Changes	(11,521)	-	-	(11,521)	221,187
6. Potential Claims	-	-	-	-	-
7. Non-Contractual Expenses	-	-	-	-	-
8. Total Forecast (3+4+5+6+7)	116,240,194	-	-	116,240,194	(40,069)



Contract NTP Date

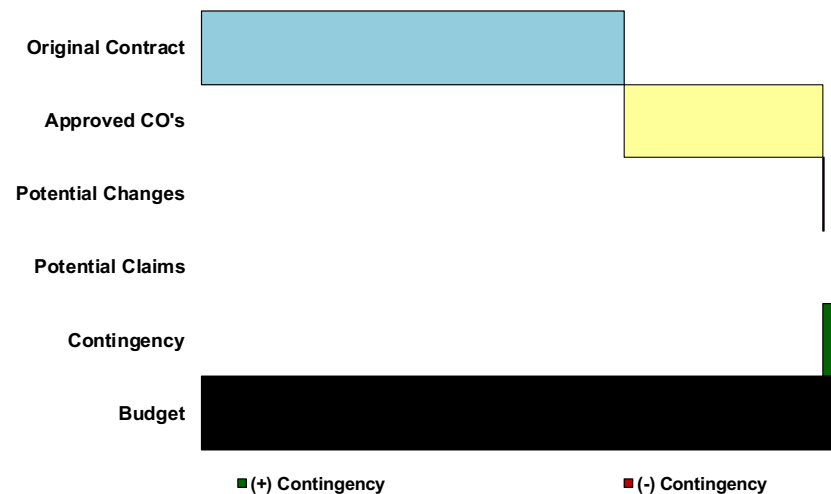
August-15

MPSS Substantial Completion Date

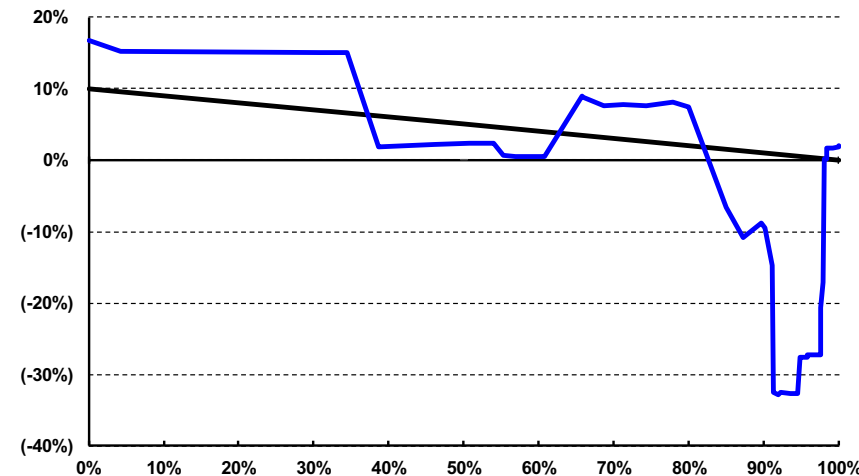
December-20

Contract Status

Budget vs EAC Forecast Waterfall

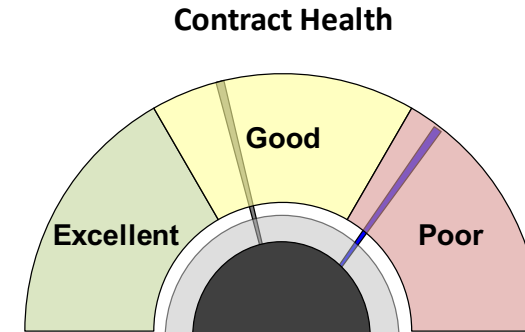


Remaining Allocated Contingency vs FTA Minimum



DBB 371 – Kamehameha Highway Stations Group

Description	Current Period (Jul-2021)			Prior Month Change
	FFGA	N/A	Total CPP	
1. Original Contract¹	136,930,845	-	136,930,845	-
2. Approved Change Orders	15,743,885	-	15,743,885	-
3. Current Contract Value (1+2)	152,674,730	-	152,674,730	-
4. Pending Changes	-	-	-	-
5. Potential Changes	(364,778)	-	(364,778)	291,955
6. Potential Claims	12,461,910	-	12,461,910	(619,747)
7. Non-Contractual Expenses	-	-	-	-
8. Total Forecast (3+4+5+6+7)	164,771,862	-	164,771,862	(327,792)



Contract NTP Date

October-16

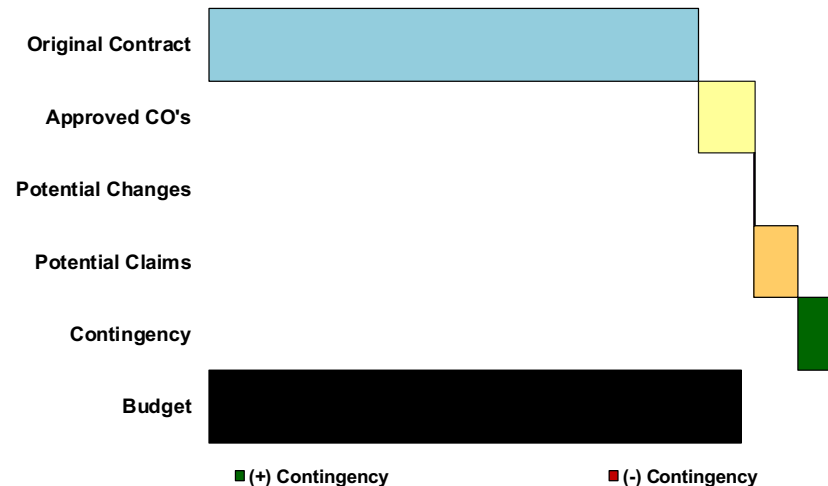
MPSS Substantial Completion Date

May-21

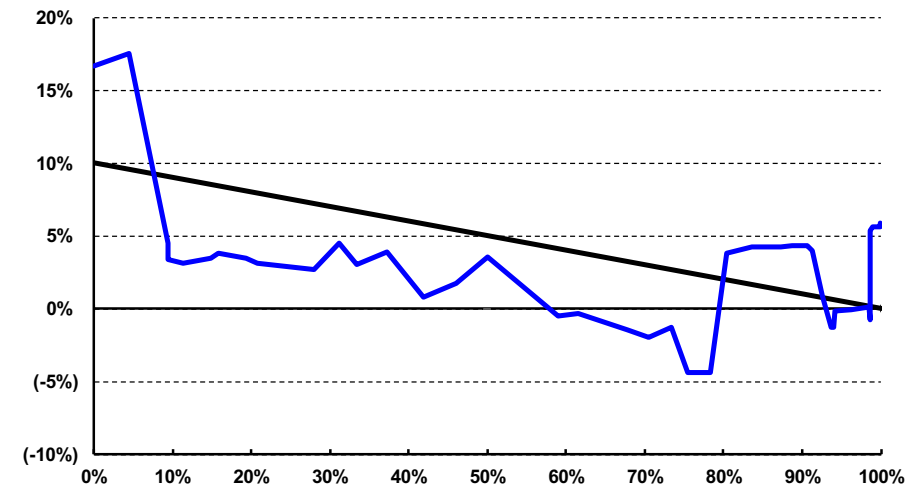
Contract Status

Note¹: Original Contract also includes estimated cost of new contract for a pedestrian bridge over Kamehameha Highway at Pearl Highlands

Budget vs EAC Forecast Waterfall

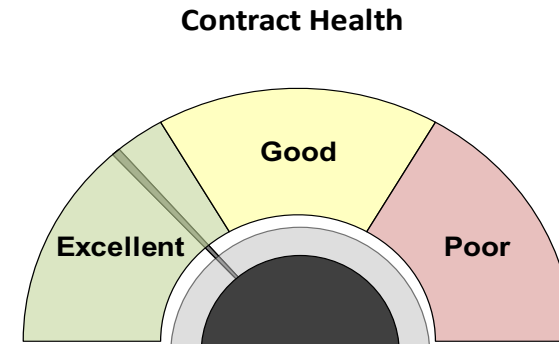


Remaining Allocated Contingency vs FTA Minimum



DBB 602 – UH Park & Ride and Campus Road B

Description	Current Period (Jul-2021)			Prior Month Change
	FFGA	UH	Total CPP	
1. Original Contract	8,309,300	3,280,000	11,589,300	-
2. Approved Change Orders	672,535	1,283,023	1,955,558	-
3. Current Contract Value (1+2)	8,981,835	4,563,023	13,544,858	-
4. Pending Changes	-	-	-	-
5. Potential Changes	-	-	-	-
6. Potential Claims	-	-	-	-
7. Non-Contractual Expenses	-	-	-	-
8. Total Forecast (3+4+5+6+7)	8,981,835	4,563,023	13,544,858	-



Contract NTP Date

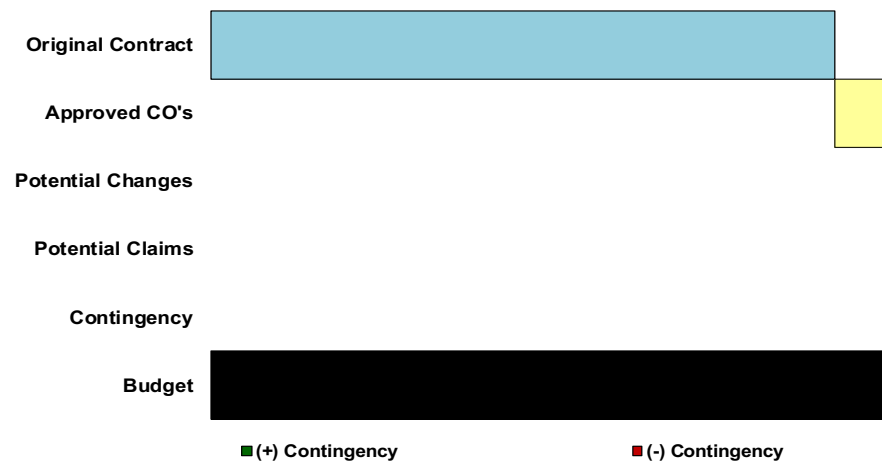
December-17

MPSS Substantial Completion Date

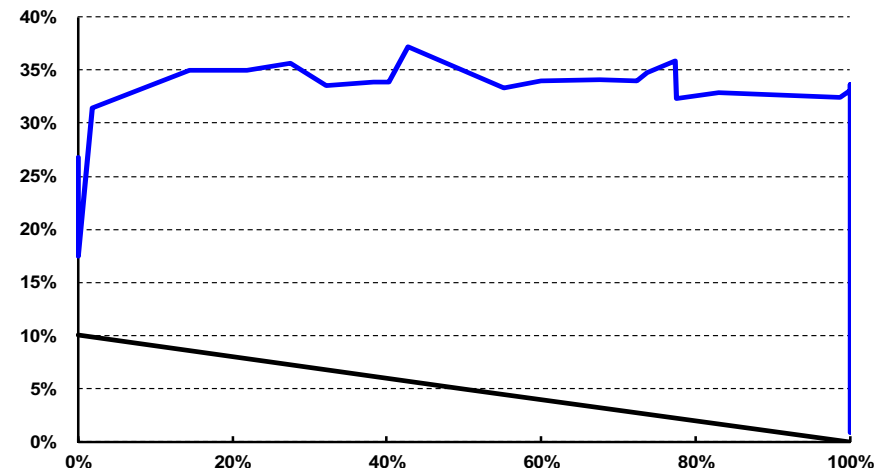
January-20

Contract Status

Budget vs EAC Forecast Waterfall

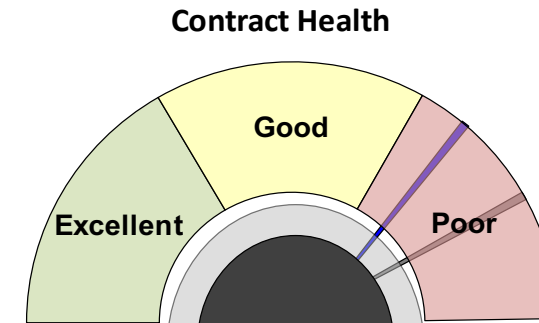


Remaining Allocated Contingency vs FTA Minimum



DBB 701 – Kamehameha Highway Resurfacing

Description	Current Period (Jul-2021)			Prior Month Change
	FFGA	HDOT	Total CPP	
1. Original Contract ¹	36,238,503	3,367,286	39,605,789	-
2. Approved Change Orders	5,156,972	2,002,956	7,159,928	1,620,492
3. Current Contract Value (1+2)	41,395,475	5,370,242	46,765,717	1,620,492
4. Pending Changes	-	-	-	(1,620,492)
5. Potential Changes	3,635,702	-	3,635,702	3,059,771
6. Potential Claims	134,941	-	134,941	-
7. Non-Contractual Expenses	-	-	-	-
8. Total Forecast (3+4+5+6+7)	45,166,118	5,370,242	50,536,360	3,059,771



Contract NTP Date

July-18

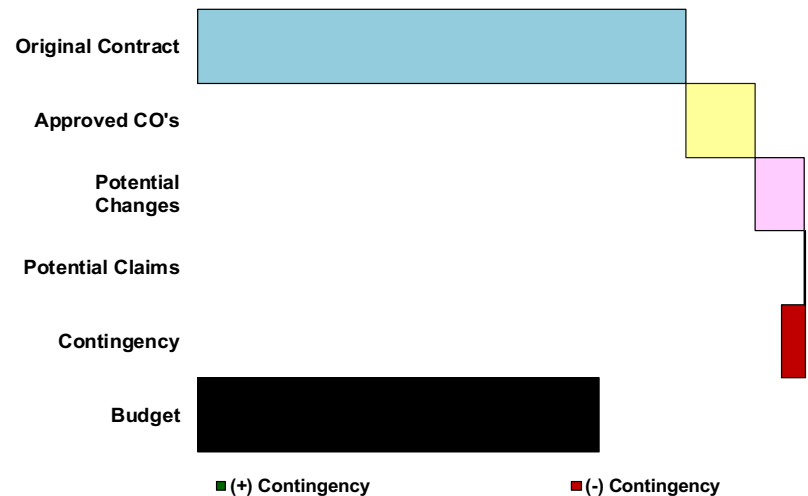
MPSS Substantial Completion Date

June-21

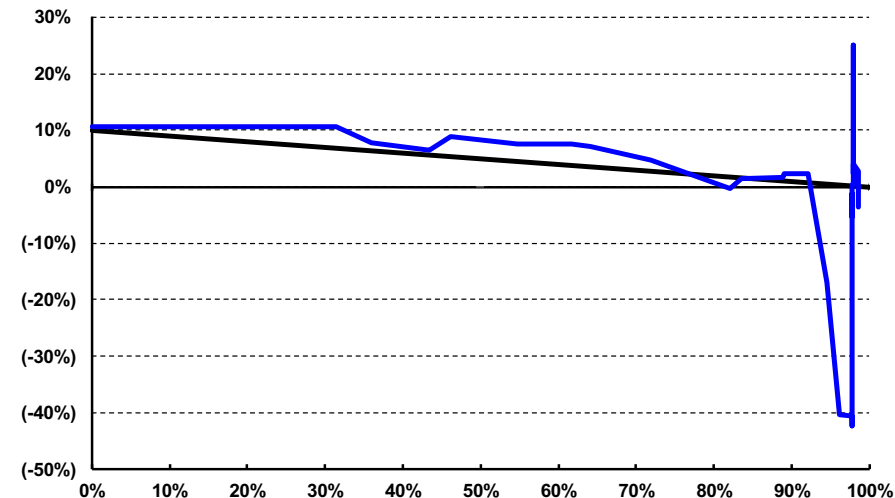
Contract Status

Note¹: Amount includes estimated cost of new contract for a left turn lane at Kuala intersection.

Budget vs EAC Forecast Waterfall



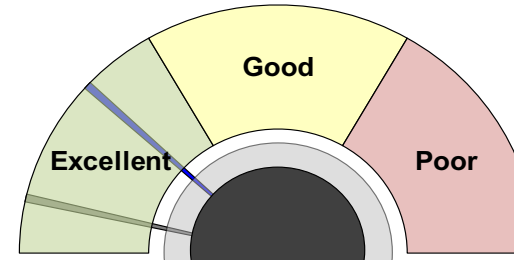
Remaining Allocated Contingency vs FTA Minimum



DBB 450 – Airport Section Guideway Stations

Description	Current Period (Jul-2021)			Prior Month Change
	FFGA	N/A	Total CPP	
1. Original Contract	874,750,000	-	874,750,000	-
2. Approved Change Orders	11,559,800	-	11,559,800	-
3. Current Contract Value (1+2)	886,309,800	-	886,309,800	-
4. Pending Changes	-	-	-	-
5. Potential Changes	44,570,503	-	44,570,503	(39,026,193)
6. Potential Claims	-	-	-	-
7. Non-Contractual Expenses	3,636,417	-	3,636,417	-
8. Total Forecast (3+4+5+6+7)	934,516,720	-	934,516,720	(39,026,193)

Contract Health



Changes as a % of Award 1% Changes & Potential as a % of Award 7%

Contract NTP Date

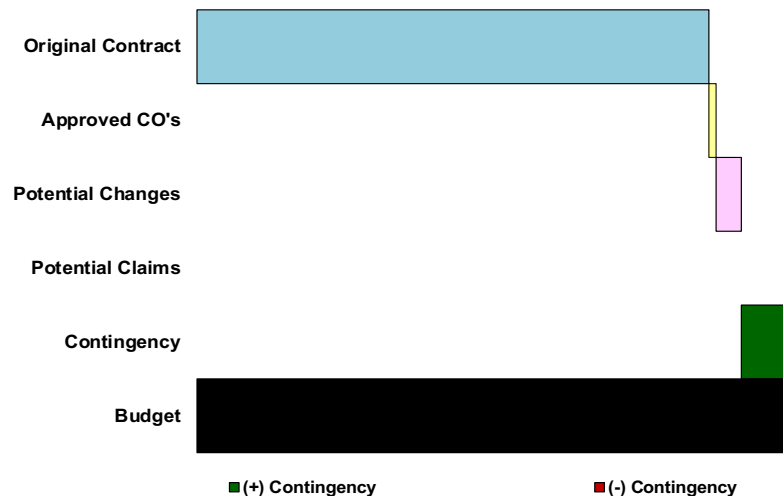
December-16

MPSS Substantial Completion Date

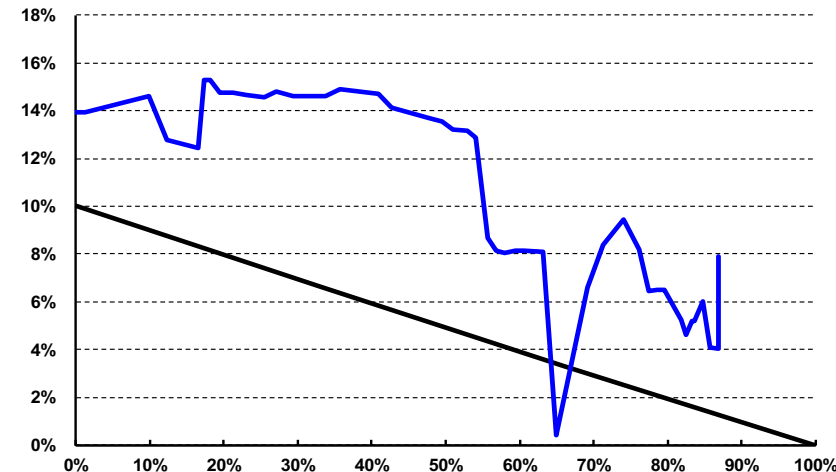
June-22

Contract Status

Budget vs EAC Forecast Waterfall

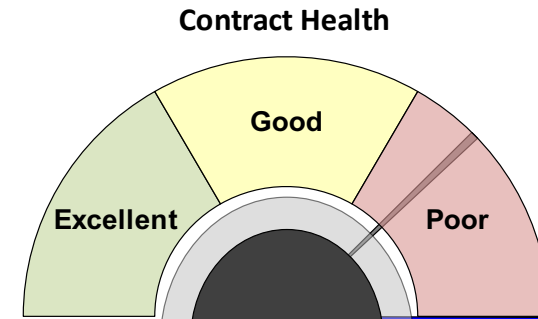


Remaining Allocated Contingency vs FTA Minimum



DBB 511 - City Center Utility Relocation

Description	Current Period (Jul-2021)			Total CPP	Prior Month Change
	Original TO	Amendments	N/A		
1. Original Contract	264,136,655	92,917,062	-	357,053,717	-
2. Approved Change Orders	-	-	-	-	-
3. Current Contract Value (1+2)	264,136,655	92,917,062	-	357,053,717	-
4. Pending Changes	-	-	-	-	-
5. Potential Changes	273,767,486	-	-	273,767,486	-
6. Potential Claims	453,478	-	-	453,478	-
7. Non-Contractual Expenses	-	-	-	-	-
8. Total Forecast (3+4+5+6+7)	538,357,620	92,917,062	-	631,274,682	-



Changes as a % of Award 35% Changes & Potential as a % of Award 103%

Contract NTP Date

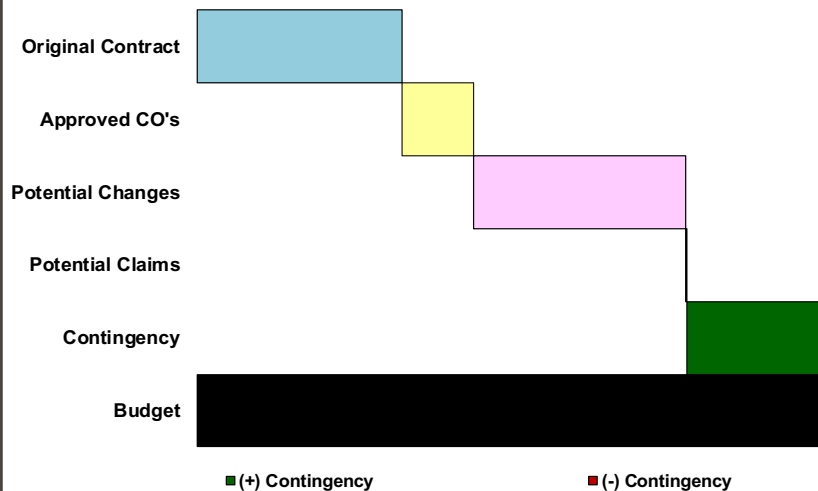
December-17

MPSS Substantial Completion Date

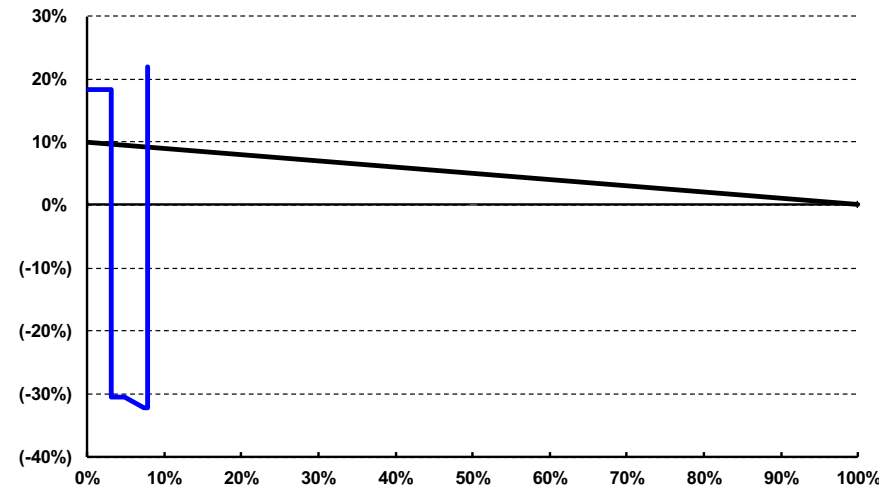
February-26

Contract Status

Budget vs EAC Forecast Waterfall

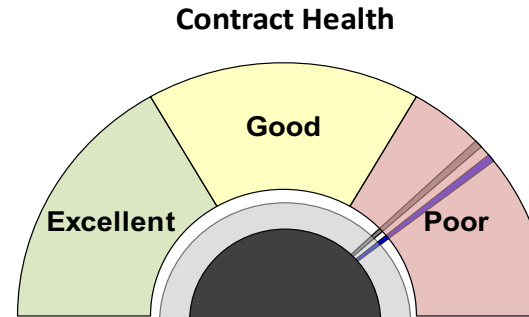


Remaining Allocated Contingency vs FTA Minimum



DBOM 920 – Core Systems Contract

Description	Current Period (Jul-2021)			Prior Month Change
	FFGA	O&M	Total CPP	
1. Original Contract	573,782,793	823,604,300	1,397,387,093	-
2. Approved Change Orders	212,522,937	-	212,522,937	200,000
3. Current Contract Value (1+2)	786,305,730	823,604,300	1,609,910,030	200,000
4. Pending Changes	-	-	-	(200,000)
5. Potential Changes	37,303,655	58,014,164	95,317,819	(1,737,714)
6. Potential Claims	-	-	-	-
7. Non-Contractual Expenses	18,373	-	18,373	-
8. Total Forecast (3+4+5+6+7)	823,627,757	881,618,464	1,705,246,221	(1,737,714)



Contract NTP Date

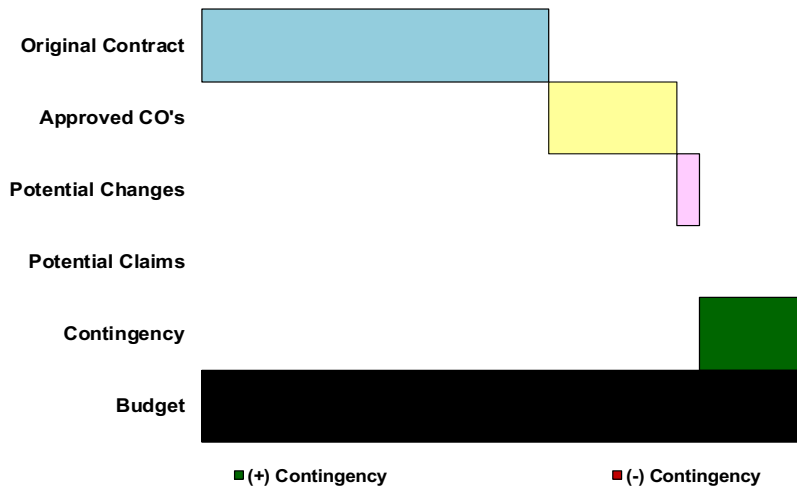
January-12

MPSS Substantial Completion Date

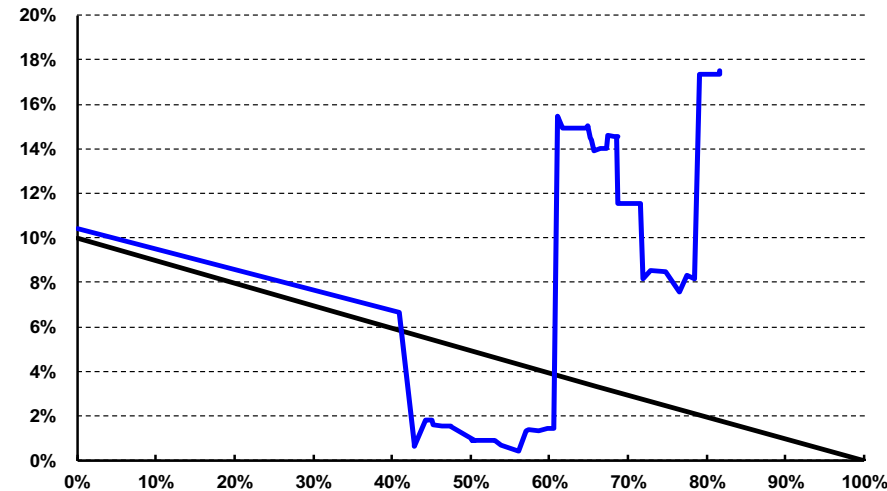
January-25

Contract Status

Budget vs EAC Forecast Waterfall

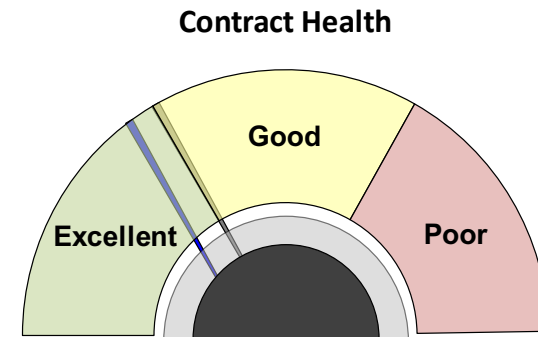


Remaining Allocated Contingency vs FTA Minimum



MI 900 – Fare Collections

Description	Current Period (Jul-2021)				Prior Month Change
	FFGA	DTS	O&M	Total CPP	
1. Original Contract	11,876,803	11,876,803	8,903,991	32,657,596	-
2. Approved Change Orders	1,197,745	49,102	-	1,246,847	-
3. Current Contract Value (1+2)	13,074,548	11,925,905	8,903,991	33,904,444	-
4. Pending Changes	201,538	38,743	-	240,281	-
5. Potential Changes	-	-	-	-	-
6. Potential Claims	-	-	-	-	-
7. Non-Contractual Expenses	-	-	-	-	-
8. Total Forecast (3+4+5+6+7)	13,276,086	11,964,648	8,903,991	34,144,725	-



Contract NTP Date

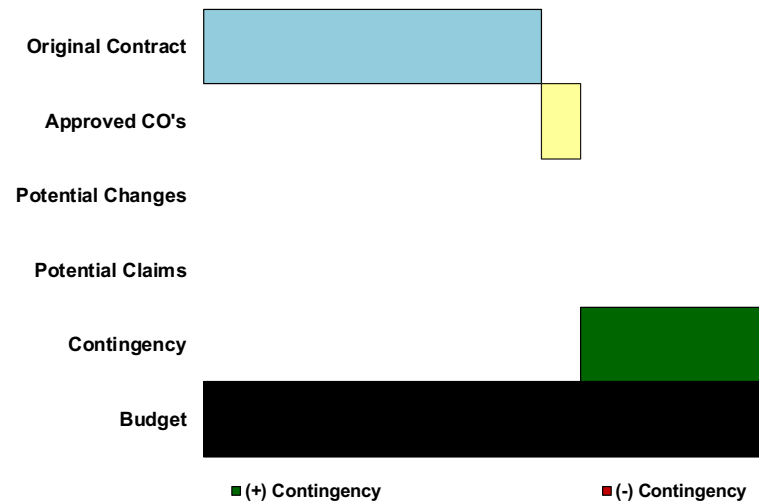
April-16

MPSS Substantial Completion Date

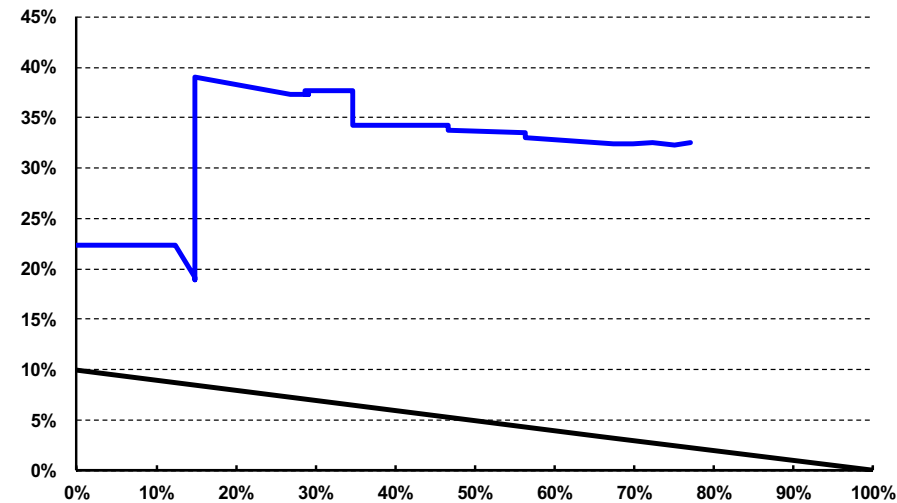
March-26

Contract Status

Budget vs EAC Forecast Waterfall

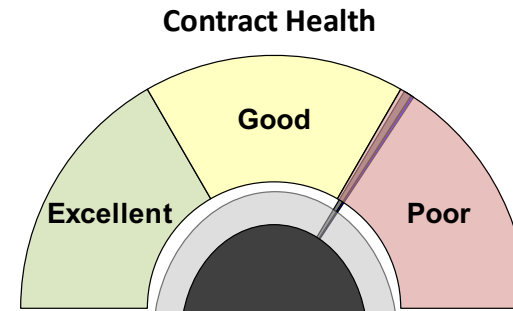


Remaining Allocated Contingency vs FTA Minimum



MI 930 – Elevators & Escalators

Description	Current Period (Jul-2021)			Total CPP	Prior Month Change
	FFGA	O&M	N/A		
1. Original Contract	52,652,738	21,713,236	-	74,365,974	-
2. Approved Change Orders	7,905,131	-	-	7,905,131	-
3. Current Contract Value (1+2)	60,557,869	21,713,236	-	82,271,105	-
4. Pending Changes	-	-	-	-	-
5. Potential Changes	809,760	-	-	809,760	809,760
6. Potential Claims	-	-	-	-	-
7. Non-Contractual Expenses	-	-	-	-	-
8. Total Forecast (3+4+5+6+7)	61,367,629	21,713,236	-	83,080,865	809,760



■ Changes as a % of Award 15% ■ Changes & Potential as a % of Award 17%

Contract NTP Date

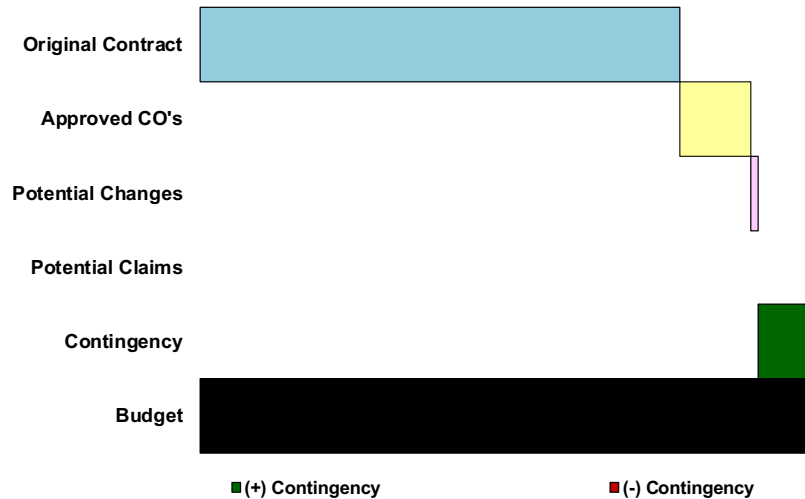
August-13

MPSS Substantial Completion Date

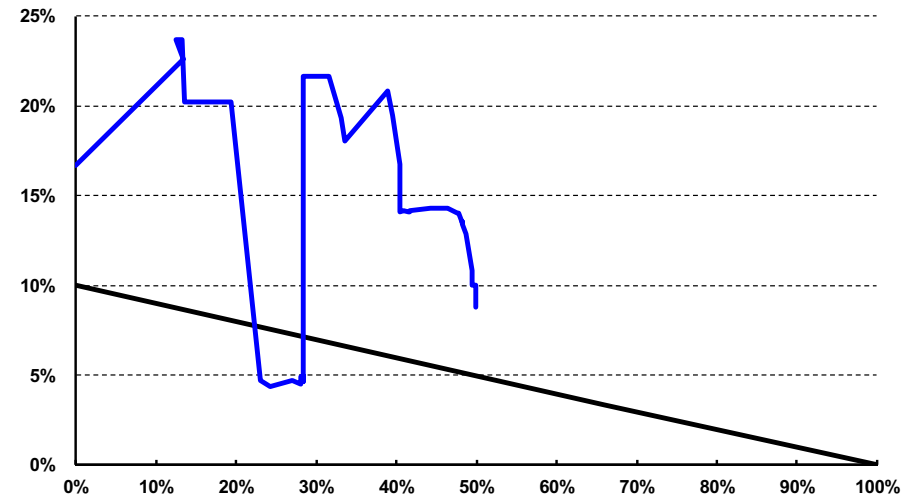
December-23

Contract Status

Budget vs EAC Forecast Waterfall

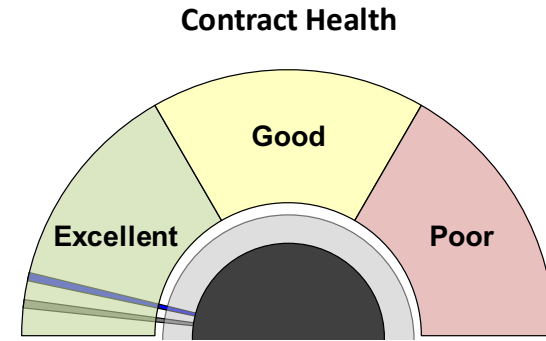


Remaining Allocated Contingency vs FTA Minimum



MI 940 – Traction Power Backup Generators

Description	Current Period (Jul-2021)			Prior Month Change
	FFGA	N/A	Total CPP	
1. Original Contract ¹	18,965,000	-	18,965,000	-
2. Approved Change Orders	75,000	-	75,000	-
3. Current Contract Value (1+2)	19,040,000	-	19,040,000	-
4. Pending Changes	164,000	-	164,000	-
5. Potential Changes	-	-	-	-
6. Potential Claims	-	-	-	-
7. Non-Contractual Expenses	-	-	-	-
8. Total Forecast (3+4+5+6+7)	19,204,000	-	19,204,000	-



■ Changes as a % of Award 0% ■ Changes & Potential as a % of Award 1%

Contract NTP Date

December-19

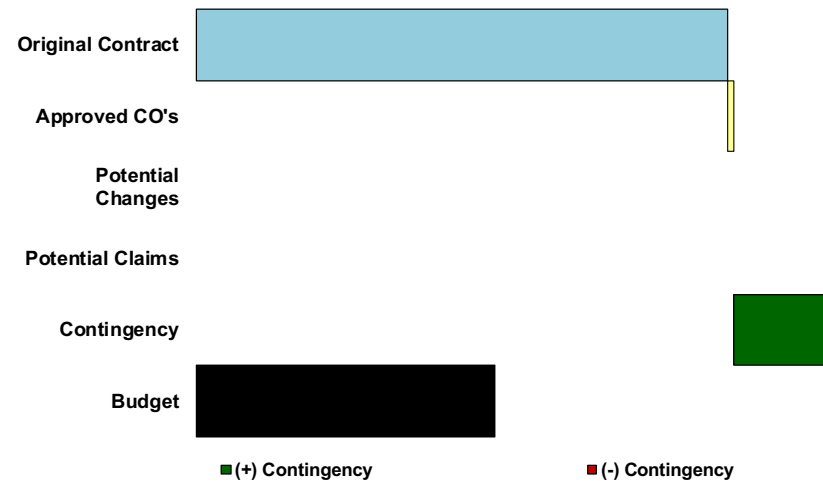
MPSS Substantial Completion Date

February-21

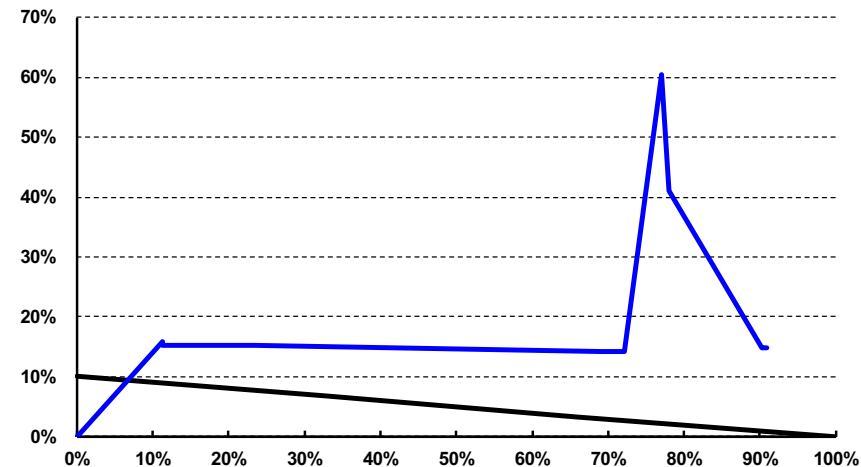
Contract Status

Note¹: Amount contains estimated cost for new contract for 2 more generators on the east half of the alignment

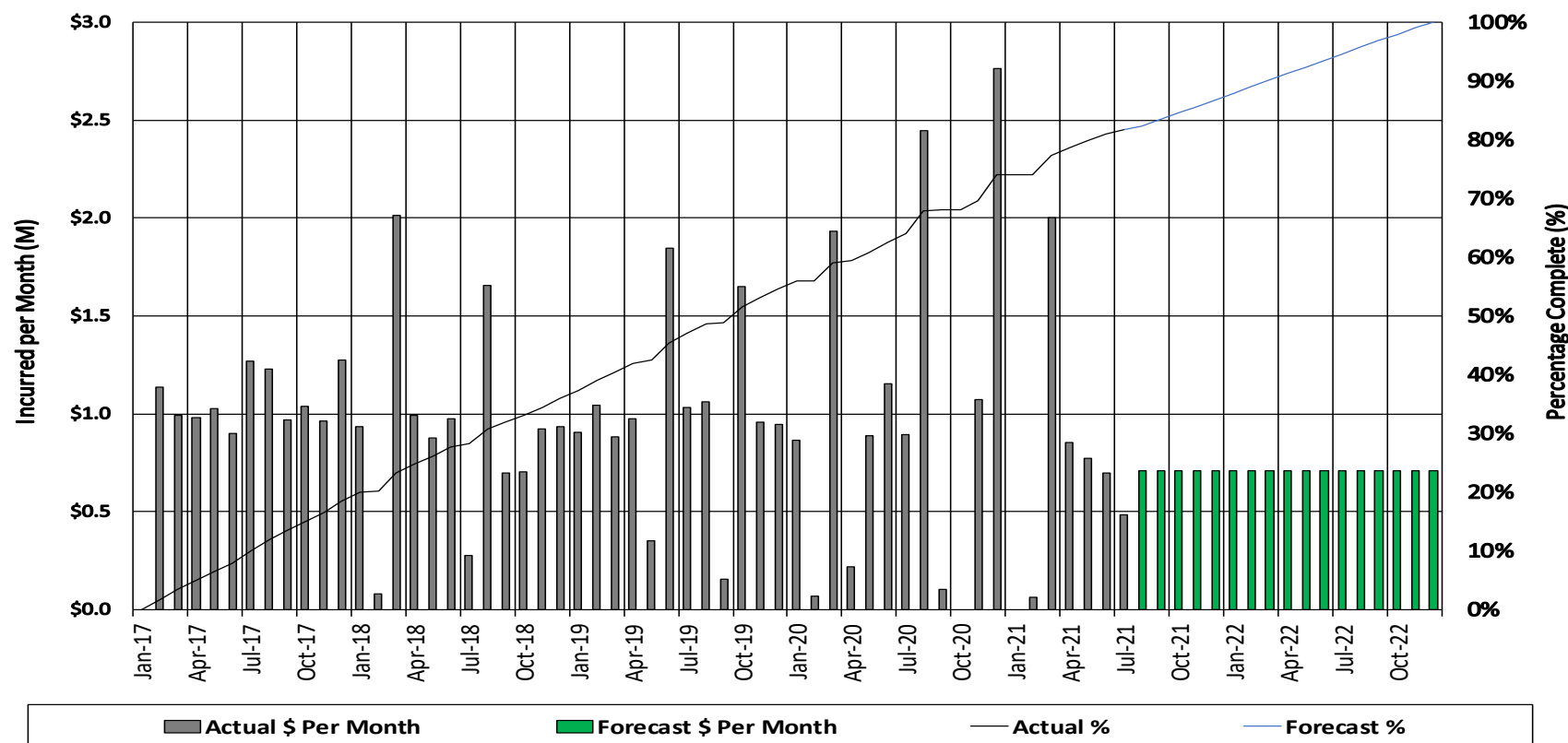
Budget vs EAC Forecast Waterfall



Remaining Allocated Contingency vs FTA Minimum



MM 902– HDR Engineering



Actual Burn Rate

6-Month Average

\$812.2K

12-Month Average

\$938.2K

Projected Completion at Current Rate

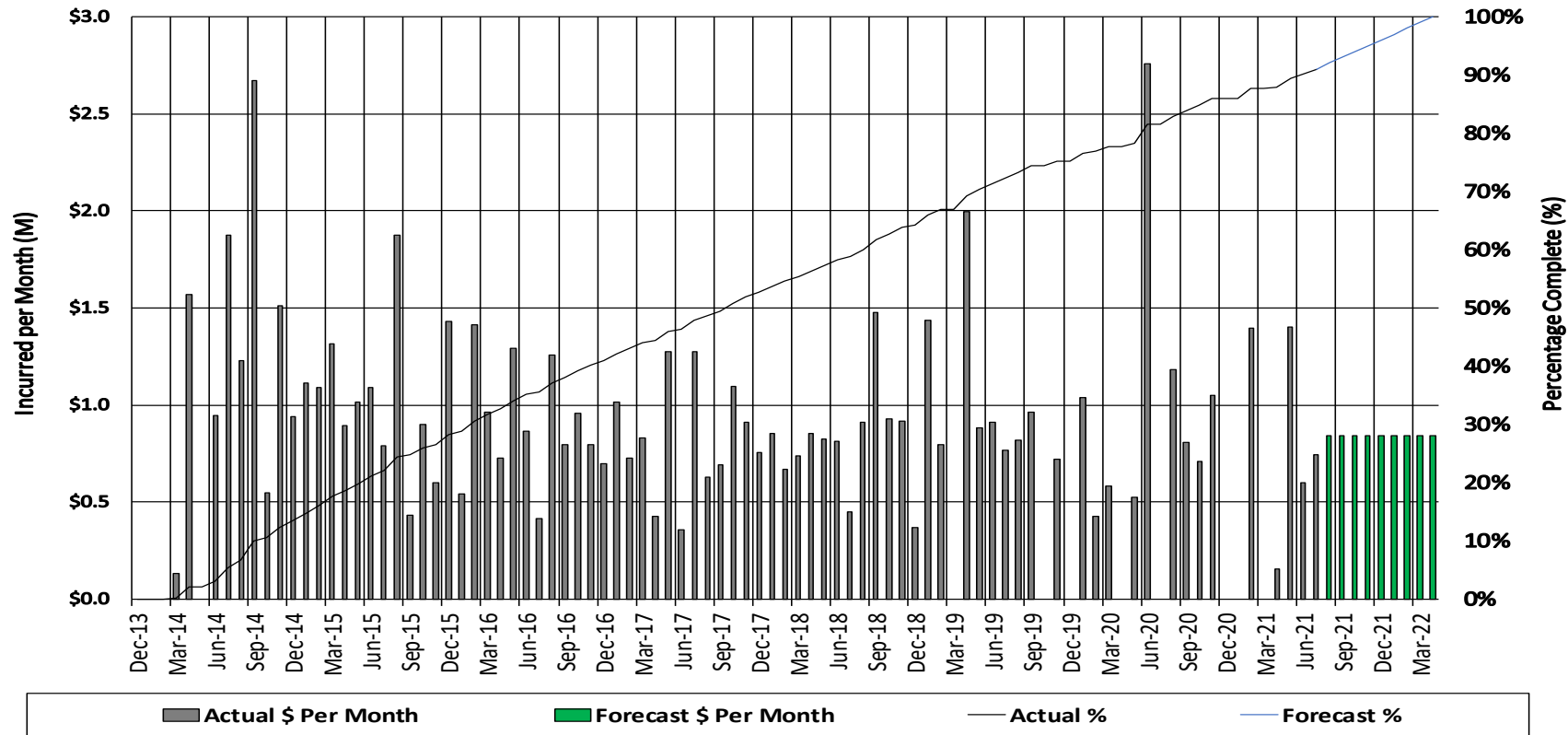
Jul-22

Contract Status

Data is presented in cash basis

CPP	Substantial Completion	Current Contract Value	Incurred-to-Date	% Spent
MM-902	Dec-22	\$63,522,953	\$51,910,513	81.7%

MM 913 – Jacobs



Actual Burn Rate

6-Month Average

\$716.7K

12-Month Average

\$670.6K

Projected Completion at Current Rate

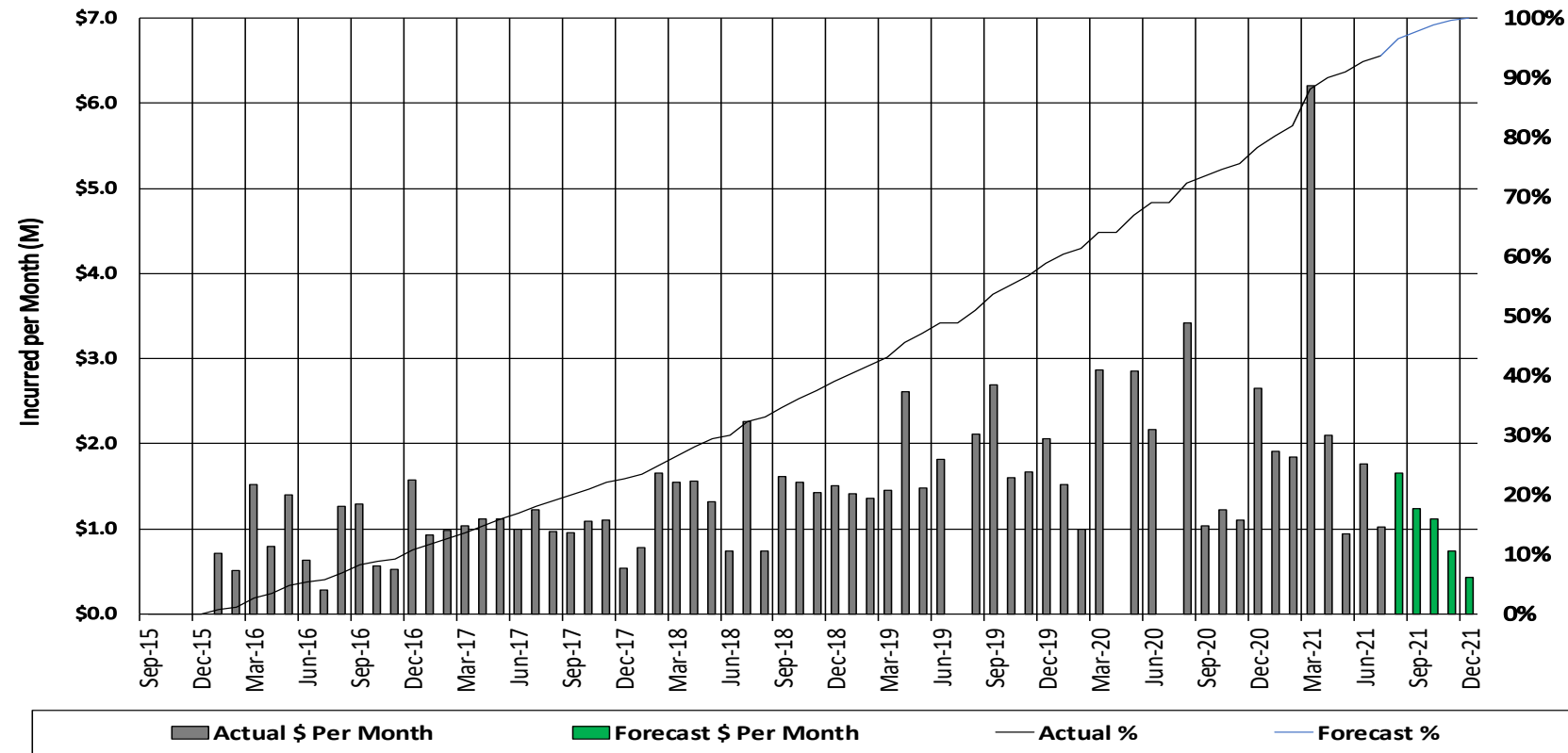
Jun-22

Contract Status

Data is presented in cash basis

CPP	Substantial Completion	Current Contract Value	Incurred-to-Date	% Spent
MM-913	Jul-21	\$84,728,775	\$77,148,685	91.1%

MM 596 – Stantec Consulting Services



Actual Burn Rate

6-Month Average

\$2,313.9K

12-Month Average

\$2,101.4K

Projected Completion at Current Rate

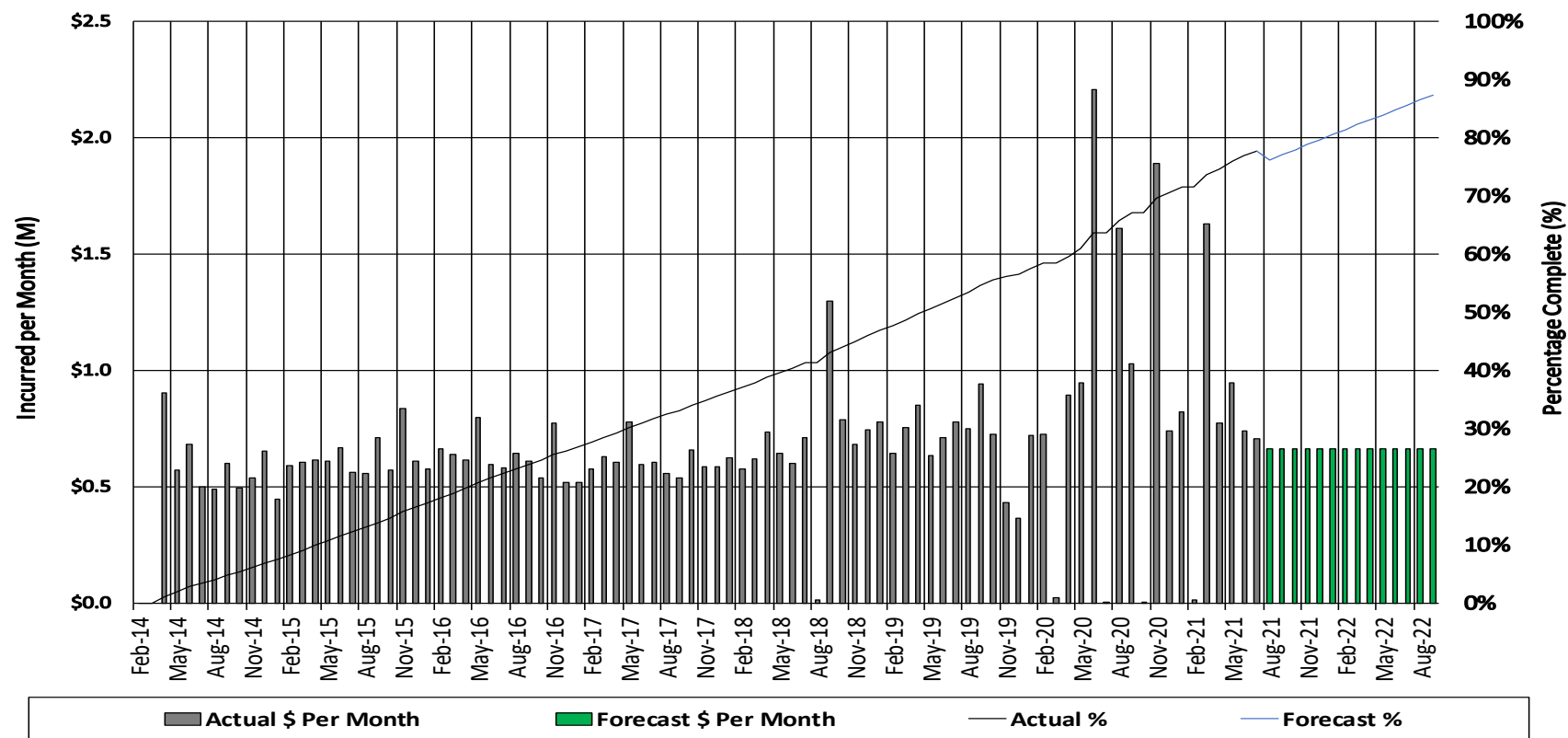
Oct-21

Contract Status

Data is presented in cash basis

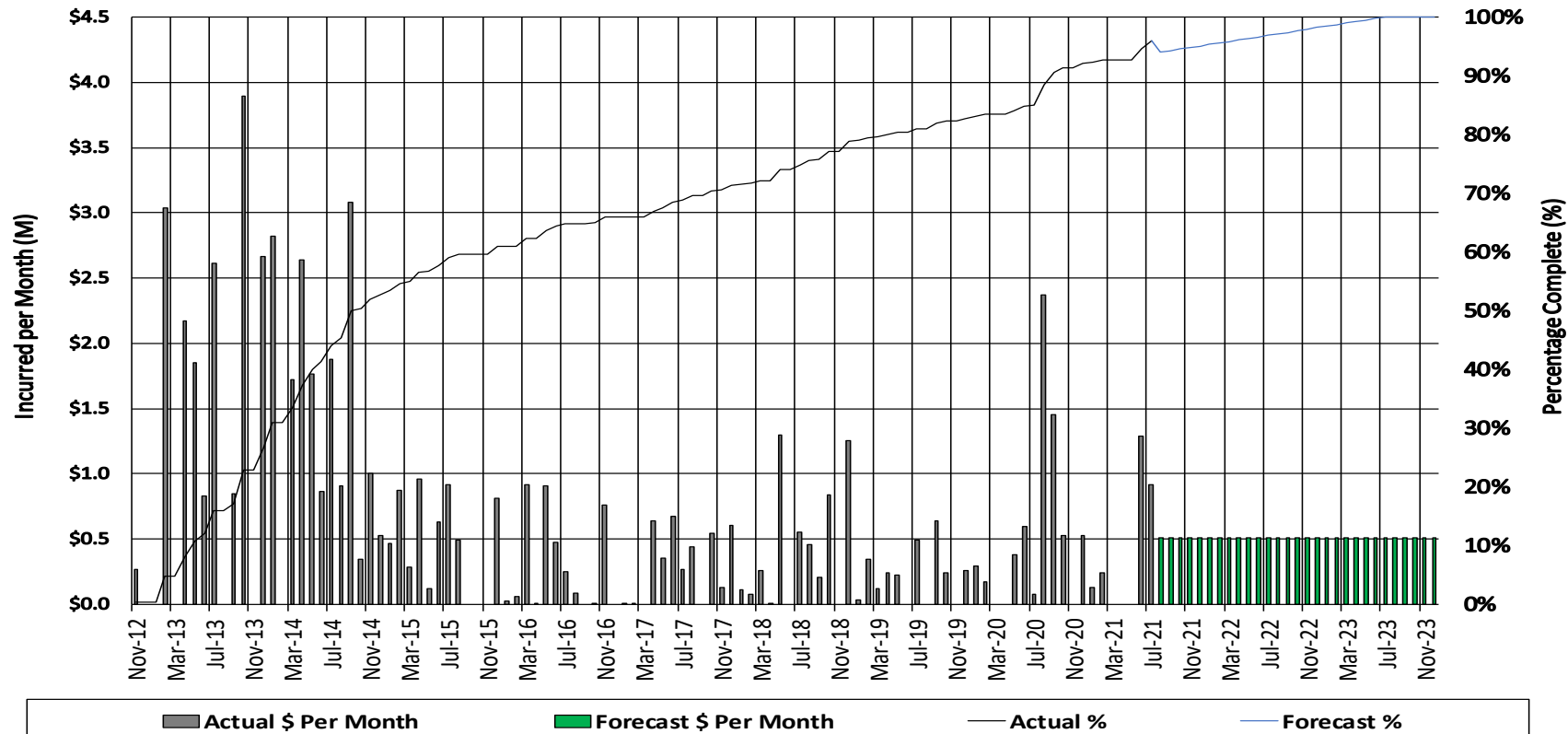
CPP	Substantial Completion	Current Contract Value	Incurred-to-Date	% Spent
MM-596	Dec-21	\$102,036,130	\$95,656,181	93.7%

MM 962 – Lea & Elliot



CPP	Substantial Completion	Current Contract Value	Incurred-to-Date	% Spent
MM-962	Sep-22	\$77,773,946	\$60,469,529	77.8%

FD 530 – AECOM



Actual Burn Rate

6-Month Average

\$408.6K

12-Month Average

\$622.0K

Projected Completion at Current Rate

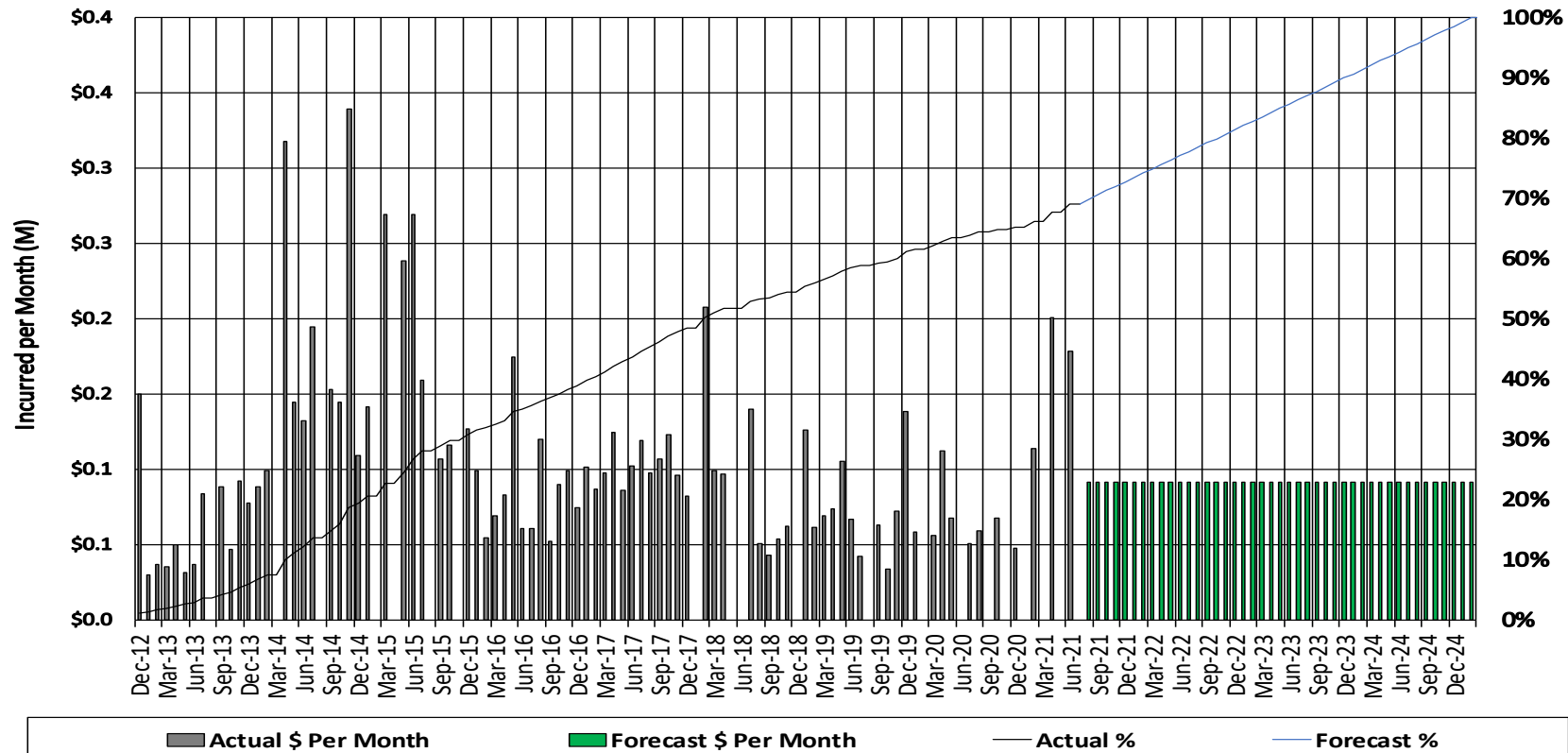
Sep-21

Contract Status

Data is presented in cash basis

CPP	Substantial Completion	Current Contract Value	Incurred-to-Date	% Spent
FD-530	Dec-23	\$67,802,044	\$65,086,084	96.0%

MM 921 – AECOM



Actual Burn Rate

6-Month Average

\$82.2K

12-Month Average

\$55.6K

Projected Completion at Current Rate

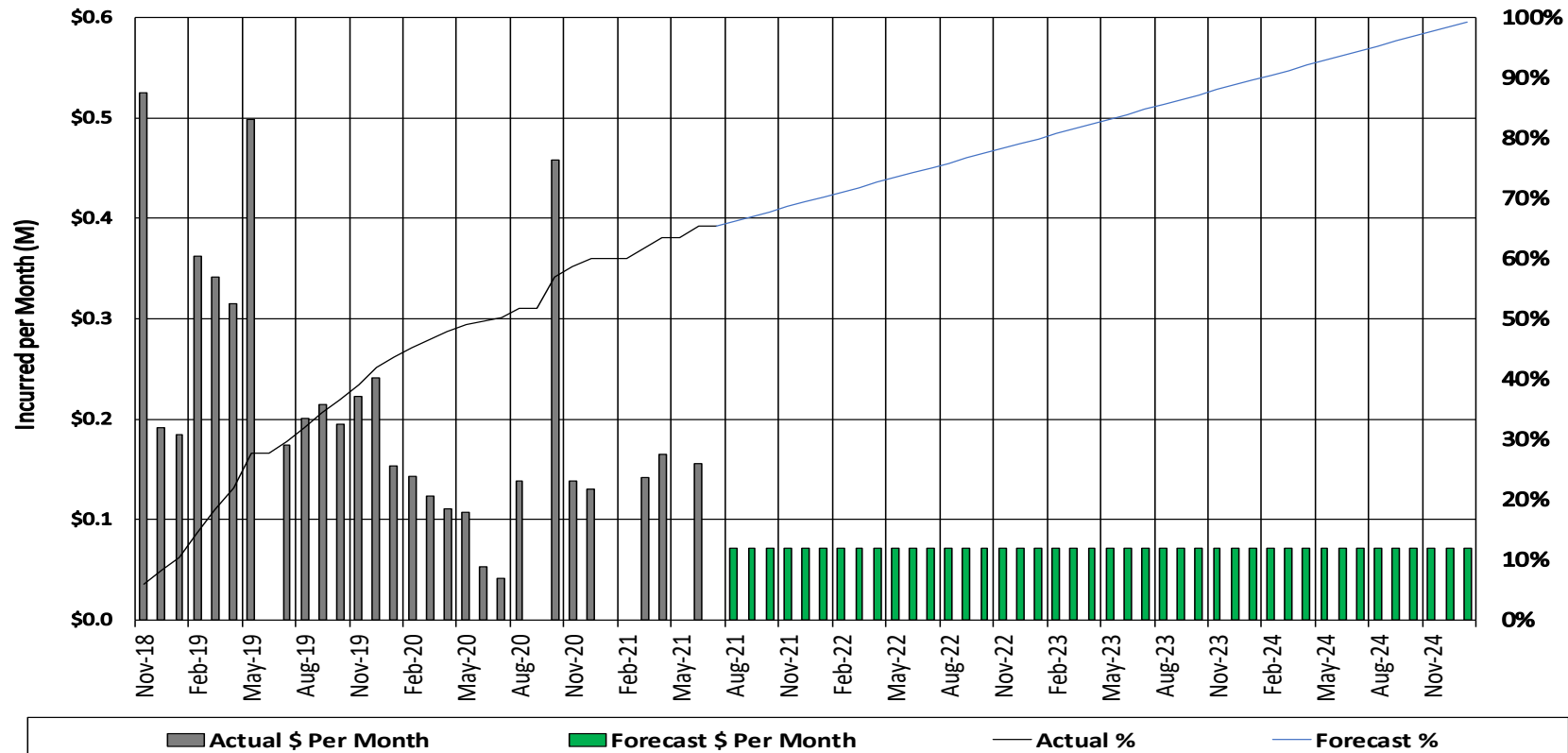
May-27

Contract Status

Data is presented in cash basis

CPP	Substantial Completion	Current Contract Value	Incurred-to-Date	% Spent
MM-921	Feb-25	\$12,713,617	\$8,790,562	69.1%

FD 700 – RM Towill



Actual Burn Rate

6-Month Average
\$77.1K

12-Month Average
\$110.7K

Projected Completion at Current Rate

Oct-21

Contract Status

Data is presented in cash basis

CPP	Substantial Completion	Current Contract Value	Incurred-to-Date	% Spent
FD-700	Jan-25	\$8,766,327	\$5,727,159	65.3%

Mahalo!

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HONOLULU RAIL TRANSIT PROJECT



June 2021 MONTHLY PROGRESS REPORT



www.HonoluluTransit.org

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This report and all subsidiary reports are prepared solely for the FTA, and should not be relied upon by any party, except the FTA, its Project Management Oversight Contractors (PMOC), and the Honolulu Authority for Rapid Transportation (HART) Board of Directors, in accordance with the purpose as described in the next section.

REPORT FORMAT AND FOCUS

This document is submitted in compliance with the terms of FTA Contract No. DTFT60-09-D-00012, Task Order No. 2. Its purpose is to provide information and data to assist the FTA as it continually monitors HART's technical capability and capacity to execute a project efficiently and effectively, and hence, whether HART continues to be ready to receive federal funds for further project development.

This document covers the project and quality management activities on the Honolulu Rail Transit Project managed by HART as the project sponsor and partially financed by the FTA under the Full Funding Grant Agreement (FFGA). Concurrent non-project activities and other items not covered by the FFGA may not be included.

INFORMATION REGARDING FORWARD-LOOKING STATEMENTS

This document includes forward-looking information. The words "believe", "anticipate", "expect", "intend", "aim", "plan", "predict", "continue", "assume", "positioned", "may", "will", "should", "shall", "risk" and any other similar expressions that are predictions of or indicate future events and future trends identifies forward-looking information. Forward-looking information includes all matters that are not historical facts. Readers should not place undue reliance on forward-looking information because it involves known and unknown risks, uncertainties and other factors that are in many cases beyond HART's control. By its nature, forward-looking information involves risks and uncertainties because it relates to events and depends on circumstances that may or may not occur in the future. Forward-looking information is not a guarantee of future performance, and HART's actual results of operations, financial condition, and the development of the industry in which it operates may differ materially from those made in or suggested by forward-looking information contained in this document. The cautionary statements set forth above should be considered in connection with any subsequent forward-looking information that HART, or persons acting on its behalf, may issue. Factors that may cause HART's actual results to differ materially from those expressed or implied by the forward-looking statements in this document include but are not limited to the risks described in HART's annual report. For projects funded through the FTA's New Starts program, the FTA and its PMOC use a risk-based assessment process to review and validate a project sponsor's budget and schedule. Any results of an FTA or PMOC risk-based assessment represent a "snapshot in time" for a particular project under the conditions known at that same point in time. The status of any assessment may be altered at any time by new information, changes in circumstances, or further developments in the project. Furthermore, any forward looking statements contained in this document are made as of the date of this report, and HART does not undertake any obligation to update publicly or to revise any of the included forward-looking statements, whether as a result of new information, future events or otherwise, except as expressly required by law.

ON THE COVER:

Left: Guideway construction on the eastern section of the alignment.

Upper Right: Construction of the guideway near Kahauiki Station at Middle Street Transit Center.

Lower Right: Construction at Āhua Station at Lagoon Drive.

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1 SUMMARY

REPORTING DATE AND SUBSEQUENT EVENTS

This report was published on July 22, 2021, for the PMOC meeting scheduled for July 28, 2021. Data is presented with a reporting cutoff date of June 30, 2021, unless otherwise noted.

KEY ACTIVITIES IN JUNE

Project Overview

The Honolulu Rail Transit Project continues to progress. In June, Train #19 arrived on-site at the Maintenance and Storage Facility (MSF). Also, the Airport Guideway and Stations (AGS) construction contract is more than 85% complete. Guideway spans for AGS are more than 85% complete, and rail work for Track 1 and 2 are nearly 60% complete. In addition, Lelepaia Station at Daniel K. Inouye International Airport is more than 60% complete, Makalapa Station at Pearl Harbor Naval Base is more than 55% complete, and Āhuala Station at Lagoon Drive and Kahauiki Station at Middle Street Transit Center are both nearing 50% completion.

HART Board of Directors

Glenn Nohara completed his appointment to the HART Board of Directors in June. He had served on the Board since October 2016. HART thanks him for his years of service and contributions on the Board of Directors.

Mayor Rick Blangiardi has appointed Colleen Hanabusa to the HART Board of Directors. Hanabusa, an attorney and former Congresswoman, will succeed Nohara on the HART Board beginning in July. She previously served as the HART Board Chair in 2016.

OVERALL SUMMARY OF WORK IN PLACE

	Total FFGA	Progress to Date	Progress (%)
Guideway In Place (miles)	20.05	15.26	76.1%
Stations Substantially Complete	21	9	42.9%
Vehicles Delivered	80	68	85.0%

CORE ACCOUNTABILITY ITEMS (\$ are in millions)

The Incurred-to-date costs are cumulative through June 2021, and exclude third-party reimbursement costs. The \$4,875 million to date represents 50% of the EAC base cost without contingency. The Incurred-to-date costs increased by \$61 million for the period.

Core Accountability Items					
		Original (Grant)	Current Forecast	Recovery Plan	Incurred to Date
Cost	Capital Cost estimate¹	\$5,122	\$12,074	\$8,908	\$4,875
Contingency	Unallocated Contingency	\$102	\$222	\$222	\$0
	Allocated Contingency	\$542	\$1,411	\$765	\$0
	Total Contingency	\$644	\$1,633	\$987	\$0
	Base Cost w/o Contingency	\$4,305	\$9,738	\$7,312	\$4,798
	Total Project Capital Cost	\$4,949	\$11,371	\$8,299	\$4,798
	FFGA Finance Charges	\$173	\$703	\$609	\$77
	Post RSD Finance Charges	\$42	\$376	\$231	\$0
	Total Project Cost	\$5,164	\$12,450	\$9,139	\$4,875
Schedule	Revenue Service Date	Jan-2020	Mar-2031	Sep-2026	

¹"Capital Cost Estimate" is the sum of "Total Project Capital Cost" and "FFGA Finance Charges"

Project Progress	Amount	Percent of Total
Total Expenditures ²	\$4,875	42.9%
Planned Value to date ³	\$3,472	69.6%
Actual Value to date ³	\$3,125	62.6%
Contract Status		
	Amount	Percent
Total Contracts Awarded ⁴	\$5,423 ⁷	47.7% ⁷
Construction Contracts Awarded ⁵	\$2,971	72.7% ⁸
Physical Construction Completed ⁶	\$2,380	58.3%

²Actual Cost of all eligible expenditures completed to date; % calculated by taking Total Expenditures divided by \$11.3B

³% calculated reflects legacy baseline, new baseline to follow

⁴Value of all contracts (design, support, construction, equipment) awarded; % of total value to be awarded

⁵Value of construction contracts awarded; % of total construction value to be awarded (reflects legacy baseline, new baseline to follow)

⁶Value of physical construction completed; % of total construction value completed (reflects legacy baseline, new baseline to follow)

⁷Value decreased from prior month due to reconciliation of contract change orders and contract closeout.

⁸Percent has been corrected.

Rolling Stock Vehicle Status	Date Awarded	No. Ordered	No. Delivered
In Progress	January 2012	80	68

Next Quarterly Review Meeting Date:	July 28, 2021
-------------------------------------	---------------

Grant Information			
FAIN (source)	Federal Funds Obligated	Federal Funds Disbursed	% Disbursed
HI-03-0047-00	\$15	\$15	100.0%
HI-03-0047-00	\$20	\$20	100.0%
HI-03-0047-01	\$30	\$30	100.0%
HI-03-0047-02	\$55	\$55	100.0%
HI-03-0047-02	\$200	\$200	100.0%
HI-03-0047-03	\$236	\$236	100.0%
HI-03-0047-04	\$250	\$250	100.0%
Funds Not Obligated	\$250	\$0	0.0%
Funds Not Obligated	\$250	\$0	0.0%
Funds Not Obligated	\$244	\$0	0.0%

OVERALL KEY ISSUES

- Switch Issues: There are four items that are being tracked on the double crossover switches.
 - Switch plate welds: Switch plate remedial welding is scheduled to begin on the weekend of July 10 and will continue on July 11, and the weekend of July 17-July 18 as needed. Work will be completed by the Airport Guideway and Stations (AGS) contractor.
 - Wheel/rail interface: HART is in the design process of a temporary weld modification of the flange bearing frog which will allow the start of Trial Operations with the current wheels installed on the trains 12 to 14 months in advance of the wheel replacement. HART will procure a new contract to perform the welding modifications. The permanent solution of modifying the wheels to a wider tread is also in the design process. The wider wheels will be compatible with the temporary weld modifications, and will be completed on the trains during operations. Transportation Technology Center, Inc. (TTCI) will also review and verify the proposed weld modification and wider wheel design for compatibility. TTCI's analysis is scheduled to be complete by the end of August.
 - Speed through the switch in the tangent position: TTCI continues to evaluate the modeling of the train wheel/rail interface to verify the maximum operating speed through the switch in the tangent position. TTCI completed onsite testing (June 7 to June 11, 2021) and is continuing to evaluate and model the track and wheels using the data that was collected onsite. TTCI's analysis for the current track condition is still projected to be complete by late August.
 - Summary: In order for HART to move forward with the proposed modifications of the temporary weld and wider wheel tread, both evaluations by TTCI must be acceptable. In the event that either the temporary welding, wider wheels, and/or the speed through the switch in the tangent position pose issues, HART will need to re-evaluate the issue which could result in the replacement of the double crossovers (DXO).
 - Cracks in frogs: The cracks in the frogs are continuing to be monitored and have not proliferated. Corrective actions on the cracks are contingent on resolution of the overall double crossover issue once we receive the TTCI report. It is expected that the contractor that performs the temporary welding modifications on the flange bearing frogs will also perform the welding repairs on the cracks.
- HECO Power Quality: HART has agreed to implement Static Synchronous Compensators (STATCOMs) to address HECO power quality concerns. HECO and HART are discussing technical details on guidelines and implementation of the STATCOMs. An executive meeting was held between HECO and HART to discuss Operations and Maintenance (O&M) responsibilities of the STATCOMs. The Department of Transportation Services (DTS) has been made aware of the situation and will be included in future discussions for O&M purposes.
- Hitachi Rail Honolulu Joint Venture (HRH) is near completion with the testing at the Maintenance and Storage Facility (MSF). Remaining Supervisory Control and Data Acquisition (SCADA) related items are Heating, Ventilation, and Air Conditioning (HVAC), backup generator, and the Access Control System (ACS)/Intrusion Detection System (IDS) at the main entrance gate. Other remaining items are scheduled to be complete by mid-August.
- System Service Availability (SSA) Calculation Program: HART, DTS and HRH continue to work on an agreed alarms list to finalize the System Assurance Monitoring Plan (SAMP); weekly work sessions have been scheduled to address outstanding issues.
- HRH has recently informed HART that System Integration Testing is tentatively scheduled to be complete at the end of August. All testing will be complete and test reports will be submitted, with the exception of seven test cases that require running through the crossover at design speed. Several test cases that cannot be completed prior to the start of Trial Operations will be performed during Trial Operations. HART continues to track HRH's delayed activities and the switch issues to determine the overall impacts to the start of Trial Running.

- Spare Parts for Trial Operations: HRH has reached an agreement with Siemens on an agreed spare parts list, but HRH still needs to update the Traction Electrification spare part list in order to gain acceptance from HART. HRH also is required to address the need to have spare parts available on site in Honolulu prior to Trial Operations.
- AGS integrated schedule: The AGS team was able to provide preliminary access milestone dates for HRH review and evaluation. The dates received by the AGS team continues to push out the schedule for Operational Readiness #2. AGS and HRH continue to have workshops to evaluate ways to mitigate the delays to Operational Readiness #2.
- Kamehameha Highway Station Group (KHSG) punchlist items identified in the June final walk-throughs for KHSG are being addressed by the contractor. The most significant issues, which have been included on the final punchlist, continue to be the bipod strut plate replacement; the Uninterruptible Power Supply (UPS) at Aloha Stadium testing; and the water infiltration and ponding issues.
- The City Center Utilities Relocation (CCUR) III solicitation is scheduled for August 2021, with award scheduled for the end of 2021. The contract delivery method will be either Firm Fixed Price or lump sum.
- The maintenance requirements for the City Center have begun under the On-Call Contract.

PROGRESS REPORT SUMMARY OF CHANGES

The following is a brief summary of major changes that have occurred from the previous month's report. For more information and detail, please refer to the respective pages in the report.

- Kamehameha Highway Station Group (KHSG)
 - The projected completion of work date has changed from July 2021 to September 2021, with the schedule status changing from "15 months behind" to "17 months behind." Please see pages 29-30.
- Kamehameha Highway Resurfacing (KHR)
 - The projected completion of work date has changed from July 2021 to August 2021, with the schedule status changing from "1 month behind" to "2 months behind." Please see page 31.
- Airport Section Guideway and Stations (AGS)
 - The projected completion of work date has changed from July 2022 to August 2022, with the schedule status changing from "7 months behind" to "8 months behind." Please see pages 32-34.
- General Engineering Consultant
 - The contract completion date has changed from July 4, 2021 to April 4, 2022, due to an amendment. Please see page 38.

BODY OF REPORT

2.1 HART Baseline Plans Status List

The status of the Baseline Plans is shown below (NOTE: changes, if any, are in bold font):

Owner	Plan	Revision Level	Date Approved	Status
Project Management (Nate Meddings)	Project Management Plan (PMP)	8.G	April 21, 2020	Approved/Baselined
Safety and Security (Raed Dwairi)	Construction Safety and Security Plan (CSSP)	6.0	July 17, 2020	Approved/Baselined
	Safety and Security Certification Plan (SSCP)	8.0	March 6, 2020	Approved/Baselined
	Safety and Security Management Plan (SSMP)	9.0	March 6, 2020	Approved/Baselined
	Sensitive Safety Information Plan	1.0	December 13, 2017	Approved/Baselined
	Preliminary Hazard Analysis (PHA)	4.0	July 3, 2019	Approved/Baselined
	Threat and Vulnerability Assessment (TVA)	2.0	January 12, 2018	Approved/Baselined
Quality Assurance (TBD)	Quality Management Plan (QMP)	5.0	May 19, 2020	Approved/Baselined
Procurement, Contracts, and Construction Claims (David Ha/Dean Matro)	Buy America Plan (BAP)	4.0	May 7, 2020	Approved/Baselined
	HART Procurement Manual	2.0	July 30, 2020	Approved/Baselined
Project Controls (Doug Cullison)	Contract Packaging Plan (CPP)	7.0	May 27, 2020	Approved/Baselined
Budget and Finance (Ruth Lohr)	Project Financial Plan (PFP): Revised Recovery Plan	1.0	November 20, 2018, REVISION Date May 10, 2019	Approved/Baselined
Planning and Permitting (Ryan Tam)	Before-and-After Study Plan	2.0	August 2, 2020	Approved/Baselined
	Mitigation Monitoring Plan (MMP)	4.0	June 29, 2020	Approved/Baselined
Right-of-Way (Krista Lunzer)	Real Estate Acquisition Management Plan (RAMP)	7.0	January 23, 2019	Approved/Baselined
Public Information (Joey Manahan)	Public Involvement Plan (PIP)	3.0	July 2, 2020	Approved/Baselined
Design and Construction (Stephen Cayetano)	Configuration Management Plan (CFMP)	5.0	July 21, 2020	Approved/Baselined
	Construction Management Plan (CMP)	5.0	June 16, 2020	Approved/Baselined
Operation and Maintenance (Robert Good/DTS)	Interface Management Plan (IMP)	5.0	May 5, 2020	Approved/Baselined
	System Integration and Test Plan (SITP)	3.0	May 26, 2020	Approved/Baselined
	Rail Fleet Management Plan (RFMP)	2.0	March 28, 2019	Approved/Baselined
	Operation and Maintenance Plan (OMP)	2.0	March 28, 2019	Approved/Baselined
	Rail Activation Plan	3.0	May 18, 2020	Approved/Baselined
	Bus Fleet Management Plan (BFMP)	5.0	April 15, 2019	Approved/Baselined
Administrative Services (Mai Do)	Staffing and Succession Plan	7.0	July 29, 2020	Approved/Baselined
Risk Management (Blane Long)	Risk and Contingency Management Plan (RCMP)	4.0	June 9, 2020	Approved/Baselined

2.2 Staffing

Overview

- Project Staffing:
 - Filled City Positions as of June 30, 2021: 58 Employees: (50) Personal Services Contract [PSC] Employees, (6) Appointees, (2) 89-day contract.
 - Project Management Support Consultant (HDR) Staff Total as of June 30, 2021: 7 HDR employees embedded in the HART organization directly participating in the management of the project, and 1 HDR employee assisting HART on a part-time basis with risk modeling (statistical analysis and risk report production).

Staffing Activities: The following chart lists active personnel recruitments as of June 30, 2021; however, the list of active recruitments will change based on the needs of the organization. We recognize that some key positions remain vacant. We are committed to filling these positions with quality candidates, and active recruitments are underway.

Staffing Activities			
Title	Division	Status	Start Month
Construction Claims Specialist	Contract Administration	Recruiting	
Director of Construction	Construction	Recruiting	
Director of Finance	Finance	Recruiting/Interviewing	
Director of Project Controls	Project Controls	Recruiting	
Director of Quality Assurance/Quality Controls	Quality Assurance/Quality Controls	Recruiting/Interviewing	
HART Board Clerk	HART Board	Recruiting/Interviewing	
Information Specialist	Government Relations and Public Involvement	Recruiting	
Information Specialist	Government Relations and Public Involvement	Selected	July
Procurement and Specification Specialist	Procurement and Contracts	Recruiting	
Procurement and Specification Specialist	Procurement and Contracts	Recruiting	
Records Management Analyst	Project Controls	Selected	August
Records Management Analyst	Project Controls	Recruiting/Interviewing	
Records Management Analyst IV	Project Controls	Recruiting/Interviewing	
Recreation Specialist (Transit Arts)	Engineering	Recruiting	
Risk Manager	Risk Management	Recruiting	
Safety Specialist	Safety and Security	Recruiting/Interviewing	
Transit Property Acquisition and Relocation Officer	Transit Property Acquisition and Relocation	Recruiting/Interviewing	

2.3 Planning and Environment

Activities this Month

- **Environmental Management**
 - Environmental Due Diligence: HART submitted the final Phase II Environmental Site Assessment (ESA) report for the Downtown Makai Station tied to the Environmental Protection Agency (EPA) Brownfields Assessment Grant.
 - HART submitted the Environmental Hazard Evaluation and Environmental Hazard Management Plan for contaminated material remaining on the Banana Patch area.
 - HART is preparing waste disposal documentation for remediation at the Civic Center Makai station.
 - HART is coordinating site access for the Park and Ride Phase I ESA.
 - HART conducted soil gas sampling to evaluate indoor air contamination at the Iwilei station.
- **Programmatic Agreement (PA)**
 - National Register Nominations (Stipulation VI.B): Staff transmitted review comments for the pre-draft of the Chinatown Historic District National Register (NR) Update to its consultant, HHM & Associates. The pre-draft NR Update for Irwin Park was received from Mason Architects. A review was initiated on June 28 so that it can be submitted to the State Historic Preservation Division (SHPD) by the July 23 deadline for the Nov. 19 public hearing of the Hawai'i Historic Places Review Board.
 - Modern/Recent Past Properties (Stipulation VI.A): A final draft of the Multiple Property Documentation (MPD) of Modern/Recent Past Properties (1939-1979) was submitted to SHPD on June 4. At the monthly Kāko'o meeting on June 25, HART staff presented an overview of the MPD and discussed plans to conduct outreach to owners of eligible historic properties in order to obtain consent to include their properties in the Multiple Property Submission (MPS) for nomination to the State and National Register of Historic Places (NRHP). A preliminary list of

eligible properties identified in the MPD for inclusion in the MPS was transmitted to Consulting Parties (CPs) and Signatory Parties (SPs) on June 28. HART will continue to collect comments on the list until Aug. 2.

• Planning

- Mauka Shift: On June 29, HART staff met with University of Hawai'i personnel at Honolulu Community College to initiate noise and vibration studies assessing potential impacts associated with the mauka guideway shift on Dillingham Boulevard. The meeting and campus walkthrough provided information on building uses and helped to refine parameters of the environmental studies which are underway.
- Right-of-Way Acquisitions: Staff finalized an environmental review of 27 additional right-of-way acquisitions, including a parcel needed to provide flood mitigation for the planned Pouhala Station makai entrance. The review included an analysis of local housing characteristics, the removal of eight low/moderate-income rental units, and a review of alternative mitigation sites.
- Environmental Documentation: Staff completed Categorical Exclusion (CatEx) documentation for twelve Hawai'i Department of Transportation highway improvement projects that are being submitted for Federal reimbursement.
- Area of Potential Effect (APE) Amendment: On June 22, HART staff submitted the draft limited scope Archaeological Inventory Survey (AIS) for the H2R1 project area to SHPD via the Hawai'i Cultural Resource Information System (HICRIS) system.

Look Ahead

- Environmental Clearances: Staff continue to prepare environmental re-evaluation documentation for guideway and station design refinements along Dillingham Boulevard and other areas in the City Center section; this documentation is expected to be advanced in late 2021.

2.4 Contracts in Procurement

Overview

- **Awarded Contracts:**
 - The HART Web System Development contract was awarded to Peaberry Interactive LLC on June 7, 2021 in the amount of \$162,544.00. The purpose of this contract is to provide web development professional services, to include website stabilization, hosting and maintenance, migration, and development into the Wordpress platform.
- **Active Procurements:**
 - Art-in-Transit: HART continues its negotiations with the highest-ranked artists for each of the stations. To date, twelve (12) contracts have been awarded.
 - Kamehameha Highway (Route 99) M.P. 17.54 to M.P. 17.71 Left-Turn into Kuala Street Request for Bids was issued on April 9, 2021. Sealed bids are due on July 9, 2021. Addendum No. 5, issued on June 18, 2021, added a Public Opening of Bids to be held on July 9, 2021 at 2:15 p.m.
 - West Side Vector Control Design-Build Request for Proposals (RFP) was issued on May 3, 2021. RFP Part 1 was due June 7, 2021. Unfortunately, no proposals were received. Currently evaluating other options for procurement.

Active Procurements					
Contract Code	Contract Name	Advertise Date	Bids or Proposals Due	Target NTP	Term/Substantial Completion
AP-00	Art-in-Transit	May 09 '13	12 contracts awarded; active procurement for remaining stations	Staggered	Staggered
DBB-701	Kamehameha Highway (Route 99) M.P. 17.54 to M.P. 17.71 Left-Turn into Kuala Street	Apr 9 '21	July 9 '21	Aug '21	300 days from NTP
DB-122	West Side Vector Control Design-Build	May 3 '21	Jun 7 '21	Sep '21	12 months from NTP

New Awards/ Contracts/NTP Issued								
Contract Code	Contract Name	Advertise Date	Due Date	Contractor	Award	Issue NTP	Term/Substantial Completion	Award Amount
					Contract Date			
HRT-201	Web System Development	Mar 23 '21	Apr 29 '21	Peaberry Interactive LLC	Jun 7 '21	Jul 2 '21	12 months + options to extend up to 6 years	\$162,544.00
					Jun 29 '21			

Upcoming Procurements Under Evaluation					
Contract Code	Contract Name	Issue Date	Procurement Duration	Proposal Due Date	Award
TBD	City Center Utilities Relocations "III"	Aug '21	3 Months	Nov '21	Dec '21
TBD	Construction Engineering & Inspection "III" Professional Services Contract	Jul '21	1 - 2 Months	Aug/Sep '21	Dec '21
TBD	General Engineering Consultant "IV" Professional Services Contract	Jul '21	1 - 2 Months	Aug/Sep '21	Oct '21
TBD	Section 106 Programmatic Agreement Project Manager Kāko'o "III"	Aug '21	2 – 3 Months	Nov '21	Dec '21
TBD	Fare Collection System Technical Support "II" Professional Services Contract	Aug '21	2 Months	Oct '21	Dec '21
TBD	Double Crossover Modifications and Weld Repairs (DMWR)	Jul '21*	1 Month	Aug '21*	Sep '21*

*Subject to the recommendations received from TTCL.

2.5 Design

FD700: Design Services for 138kV Utilities Relocation at KHG

Contractor: R.M. Towill Corporation (RMTC)

Contract Start Date: September 2018

Contract Substantial Completion: November 2021

Project Description: Architectural and Engineering Services for the final design to relocate the existing 138kV overhead electrical lines to underground lines at Kamehameha Highway Guideway and Stations.

ACTIVITIES THIS MONTH:

- Right of entry obtained for Healan Property. Design consultant and HART Right of Way coordinating with Kamehameha Schools to obtain right of entry for performing geotechnical engineering work. Design consultant is also obtaining right of entry near Pole 28 from the Department of Land and Natural Resources (DLNR), and near Pole 3 with Hawaiian Electric Company (HECO).
- Design consultant is finalizing the location of Pole 18a with both HECO and the Hawai'i Department of Transportation (HDOT).
- Design consultant completed the pole access study in conjunction with overhead alignment between Poles 22 and 28, and this study was submitted to HECO for review and further discussion.

LOOK AHEAD:

- Upon receipt of comments on the pole access study for overhead alignment between Poles 22 and 28, discuss with HECO to resolve.
- Secure remaining rights of entry and continue geotechnical reconnaissance work.
- Resolve Pole 18a location.
- Resolve utility bridge corrosion protection accommodations.
- Coordinate with HECO on their portion of the design.

KEY ISSUES (new issues are in bold font):

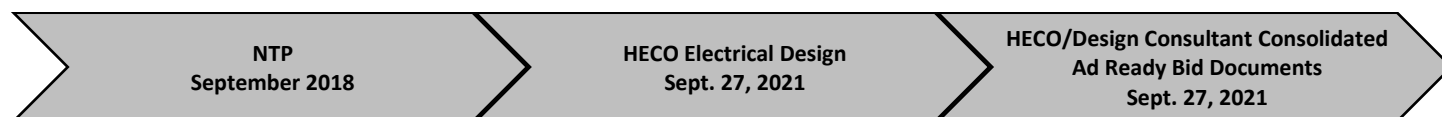
- Resolve Pole 18a location, and resolve alignment between Poles 22 and 28.
- Resolve utility bridge corrosion protection accommodations.
- Need to meet with HECO to update the schedule.

SCHEDULE:

Progress		Schedule Status
Based on Expenditures*	65.9%	On time
Early Plan*	91.7%	
Late Plan*	85.5%	

*Data as of June 25, 2021.

KEY MILESTONES:



COST SUMMARY:

Original Contract:	\$8,766,327	Incurred-to-Date:	\$5,727,159
Current Contract Value ¹ :	\$8,766,327	Incurred in June:	\$100,462

¹Current Contract Value = Original contract value with Design Allowance + executed Change Orders

FD530: City Center Section Utilities and Guideway

Contractor: AECOM Technical Services, Inc., Final Design Consultant (Engineer of Record)
Contract Substantial Completion: December 2023

Contract Start Date: July 2012
Projected Completion of Work: December 2023

Project Description: The original City Center Section Utilities and Guideway (CCUG) final design contract consisted of utility relocations, roadway widening, and 4.12 miles of elevated transit guideway serving eight (8) passenger stations. The scope of the CCUG contract has been reduced to include only the design of utility relocations and roadway widening to facilitate future guideway design and construction by others. The remaining work is herein referred to as the City Center Utilities Relocation (CCUR) design.

ACTIVITIES THIS MONTH:

- AECOM received the following approvals for CCUR III Task Order packages: Area 3 N. Nimitz Dry 27 and Traffic Signal (TS)/Street Light (SL) 03, and Area 4 Halekauwila Wet 03.
- AECOM submitted or resubmitted the following design to HART and/or third parties: Area 4 Halekauwila Wet 03, Area 4-6 Kakaako TS/SL 04, and a new package for Area 2-6 Permanent Intelligent Transportation Systems (ITS).
- AECOM provided a concept design of the Mauka shift horizontal alignment to HART for review and comment.
- AECOM continued to advance utility relocations for the Mauka shift concept design, including coordination with HECO on keeping lines overhead on the Makai side of Dillingham Diamond Head of Kapalama Stream, and access needs for HECO to maintain overhead lines.
- AECOM continued to support procurement activities for utility relocation construction in Areas 2-6. Continued to attend weekly sessions to review status and action items for preparation of procurement documents; continued to review and provide feedback on incorporation of Roadway, Traffic Signal, and Street Light items into the CCUR III contract documents.

LOOK AHEAD:

- AECOM is expecting to receive approvals from third parties on the following designs: Areas 4-6 Kakaako Dry 32, Dry 24, Dry 17, Dry 28, TS/SL 04; and Areas 2-6 Permanent ITS.
- For CCUR III procurement documents, as-built drawings have been made available for AECOM to highlight work completed on the task order drawings. This effort is to be complete in July 2021.
- AECOM to begin a bi-weekly meeting series, with the design team, HART, and 3rd party utilities on Dillingham (Area 1) utility relocation design.

KEY ISSUES (new issues are in bold font):

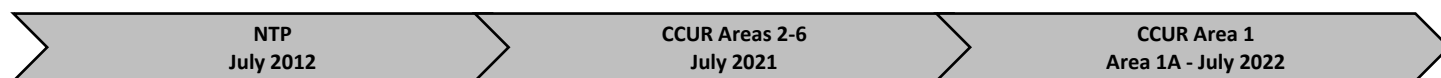
- HART is reviewing the potential of splitting CCUR III procurement into multiple contracts. Current direction is to include one complete procurement for Areas 2-6.

SCHEDULE:

Area	Package	Primary Corridor	Street range	Received from Designer	Anticipated IFC Approvals
1	All	Dillingham	Middle to Ka'aahi	TBD (see Key Milestones)	TBD (see Key Milestones)
2	Dry 12	Ka'aahi	Dillingham to Iwilei	Done	Done
	Wet 08	Ka'aahi	Dillingham to Iwilei	Done	Done
	Wet 08A	Ka'aahi	Dillingham to Iwilei	Done	Done
	Ka'aahi TS/SL	Ka'aahi	Dillingham to Iwilei	Done	Done
3	Dry 27	N. Nimitz	Iwilei to Richards	Done	Done
	Wet 14	N. Nimitz	Iwilei to Nu'uuanu Stream	Done	Done
	Wet 15	N. Nimitz	Nu'uuanu Stream to Richards	Done	Done
	TS/SL 03	N. Nimitz	Iwilei to Richards	Done	Done
4	Dry 32	Halekauwila	Richards to Cooke	Done	Done
	Wet 09	Halekauwila	Richards to Cooke	Done	Done
	Dry 24	Halekauwila	Cooke to Ward	Done	Done
	Wet 03	Halekauwila	Cooke to Ward	Done	Done
5	Dry 17	Queen	Ward to Pensacola	Done	Done
	Wet 11	Queen	Ward to Kamakee	Done	Done
	Wet 16	Queen	Kamakee to Pensacola	Done	Done
6	Dry 28	Kona	Pensacola to Kona Iki	Done	Done
	Wet 18	Kona	Pensacola to Kona Iki	Done	Done
4-6	TS/SL 04	Kakaako	Richards to Kona	Done	Done
2-6	Roadway	CCUR	Ka'aahi to Kona	Done	Done
	ITS - Permanent	CCUR	Ka'aahi to Kona	Done	7/9/2021

Progress		Schedule Status	
Based on Expenditures*	94.9%	On time (based on contract substantial completion date)	
Early Plan*	95.3%		
Late Plan*	94.9%		

*Data as of June 25, 2021.

KEY MILESTONES:**COST SUMMARY:**

Original Contract:	\$43,948,220	Incurred-to-Date:	\$64,644,345
Current Contract Value ¹ :	\$67,802,044	Incurred in June:	\$304,980

¹Current Contract Value = Original contract value with Design Allowance + executed Change Orders

2.6 Right-of-Way

- Throughout the month of June, the Transit Property Acquisition and Relocation (TPAR) team participated in interdepartmental discussions related to the next phase of construction to be completed to relocate utilities in the City Center area (CCUR III), not including the area impacted by the Mauka shift. The main focus of the discussions was to ensure that all necessary property rights have been properly identified and have been secured, or will be secured in a timely manner. In addition, access requirements were detailed and determined for each of the parcels and appropriately described for use in the request for bid solicitation.
- The TPAR team worked with the design, construction and mapping teams to assist with creating the Right-of-Way Plans that will be used for CCUR III. TPAR verified that properties were correctly identified by both Parcel and Tax-Map-Key numbers. Additionally, feedback was provided regarding the labels used to differentiate property acquisition types (easements vs. fee).
- The TPAR team reviewed the project risk report to determine if the items reported reflect current risk factors associated with project property needs. It was determined that a number of the items were related to the public-private partnership (P3) initiative, which has been canceled. These risk items were retired. TPAR will participate in a risk workshop in July, where the focus will be to quantify new project risks associated with the Mauka shift, current litigation, and the upcoming CCUR and CCGS work.
- The ROW department continued to work with the Unifier team to assist with development of the portion of the software that will be used to track, schedule and report TPAR's activities. This element is ongoing.

General Acquisition Activities

- The below tables will be used on a monthly basis to report on the current status of acquisition activities. The information is extracted from the monthly TPAR status report.

Acquisition Summary – June 2021					
Area (Earliest Access Need By Date)	Up-Coming Acquisitions	Active Acquisitions		Closed Acquisitions	
	Pre-Acquisition	Access by Agreement	Properties Without Access	Acquired Easement or Agreement	Acquired in Fee
1	2	8	1	10	16
2	34	7	1	0	7
3	7	11	0	30	9
4 – 1a (Est. 12/6/22)	1	1	1	0	10
4 – 1b (Est. 12/6/22)	6	6	1	0	18
4 – 1c (Est. 12/6/22)	3	2	2	0	5
4 – 2 (Est. 11/15/21)	0	4	1	2	5
4 – 3 (Est. 12/31/21)	1	0	1	0	1
4 – 4 (Est. 12/6/21)	15	10	6	1	7
4 – 5 (Est. 12/31/21)	0	7	0	2	5
4 – 6 (Est. 12/31/21)	0	3	1	0	10

PID Status Summary	
Status	Total Parcels
Design	46
Post-ROD	16
Environmental	7
Valuation	4
Negotiations	13
Acceptance	2
Eminent Domain	29
Conveyance	4
In Escrow	19
Offer	1
Acquired	138
Total	279

*Cells in yellow designate pre-acquisition status.

General Condemnation Actions

- The condemnation actions are monitored by Corporation Counsel (COR). Bi-weekly meetings are held between HART's outside legal counsel, COR and TPAR.
- Below details current activities in the condemnation actions:
 - West O'ahu/Farrington:
 - Parcel Identification Number (PID) 102: A status meeting with the judge was held on June 7, 2021. The Department of Health (DOH) has issued questions related to the remediation report that was submitted by the environmental contractor. These questions will be addressed by the contractor within 60 days.
 - Airport:
 - PID 318: The owner is in the process of executing the administrative settlement. Once executed, the Grant of Easement will be filed and the condemnation action will be dismissed.
 - PIDs 306 and 319: The administrative settlement agreement was placed on hold until access issues are resolved related to a HECO easement on PID 306. The access issues are expected to be resolved in the upcoming month, which will allow the administrative settlement discussions to resume.
 - City Center:
 - PID 400: There was a court hearing related to a request to review the public use of the property. The Court denied the request. The attorneys will now focus on preparing for the January 2022 trial date. HART has received court ordered possession of the property.
 - PIDs 502 and 503: The easements on these properties have been shifted to a different parcel that will be acquired in fee, thereby eliminating the need to condemn easements on these two properties. The condemnation actions will be dismissed once the Post Record of Decision (ROD) for the fee acquisition has been approved by the FTA.

General Relocation Actions

- Relocation of the tenants of PIDs 493, 434 and 404 is ongoing. There are no critical issues related to these relocations at this time.
- HART continues to implement the Individual Corrective Action Program (ICAP). As of June 30, 2021, the program is 55% complete. It is anticipated that the program will be fully completed as of Sept. 30, 2021.

Implementation of the Individual Corrective Action Plan – 6/30/21

Status: 109 Total Files	Totals
Individual Corrective Action Plans Approved by FTA	106
Additional Claims Filed	25
In Process by The LTL-Schock Group	14
Pending Payment by HART	1
Claim Paid by HART	8
Claim Denied by HART	2
Files Closed	60

Status of Inter-Governmental Agreements

The status of agreements between HART and other government entities are summarized in the table below. Objectives are:

- 1) Obtain Construction Right of Entry, Executive Orders, Set Asides, Jurisdiction Transfers, Joint Use Agreements, licenses, easements, Memorandum of Understanding (MOUs), Memorandum of Agreement (MOAs), etc. with impacted government agencies. Government agencies HART is working with include: Federal (GSA, Navy, USPS, Office of Interior), State (HDOT-Highways & Air, DLNR, DAGS, HCDA, DOE, Aloha Stadium, UH), and County Agencies (DTS, DPP, DFM, BFS, DDC, Parks, DLM, ENV). Some government agencies may choose to issue the final documents after construction is substantially underway or near completion.
- 2) To help negotiate and/or obtain Rights of Entry for certain other construction-related activities as requested by Design and Construction. Such agreements may include: geotechnical borings, soil testing, environmental surveys, bus stop agreements, construction lay down surveys, and other construction-related needs. There may be other Rights of Entry and Agreements which may not involve ROW acquisition or relocation. ROW will assist other HART departments, should requests be authorized and funded.
- 3) Agreements to be executed are in the table below. Executed agreements are in Appendix C, and while these parcels may be accessible at this time for construction, further documentation may also be required to complete the acquisition.

Inter-Governmental Agreements					
Agency	Pending Agreements	Target	Section	Construction Right of Entry (CROE) Obtained	Notes/Remarks
STATE AGREEMENTS					
UH – University of Hawai'i, West O'ahu (UHWO-125)	Construction Right of Entry and Occupancy & Use Agreement for East Kapolei Park & Ride	TBD/ Estimate Third Quarter 2021	WOFH	Yes	Interim park and ride (300 spaces) completed. UH Board of Regents approved the long-term Use and Occupancy Agreement Term Sheet. This matter passed subcommittee last month and will be reviewed and approved by the full City Council at the Aug. 11, 2021 session unless re-calendared for further discussion.
UH – Urban Gardens (201A)	Conveyance to HDOT (H) – Dept. of Transportation Highways	July 2021	KHG	Yes	Discussions with Attorney General (AG) are ongoing regarding details of dedication. Phase II supplementary materials furnished to AG office as well as Grant Deed exhibits. HDOT needs to review and approve remaining construction checklist items.
UH – Honolulu Community College (HCC) (424A)	Construction Right of Entry for guideway & station	September 2021	City Center	No	Pending design finalization. Working with UH on ROE Agreement. Mauka shift accepted. Maps being revised to reflect Mauka shift changes.
DLNR – Dept of Land & Natural Resources (124)	Easement Agreement for overhead guideway and easement / long term ground lease for park and ride facility	July 2021	WOFH	Yes	Request to expand Park and Ride CROE (executed in 2013) from 5 to 11 acres was approved by the Board of Land and Natural Resources (BLNR) at its May 8, 2020 Board Meeting. A Right of Entry will be issued for 11 acres. DLNR edits received. Will go to HART CEO for approval after some additional discussion with DLNR.
DLNR/C&C Wastewater Div (437B)	Easement Agreement	December 2021	City Center	Yes	Waiting for the easement map to be finalized by DLNR.
DOE - Waipahu H.S. (118)	Permanent Easement (State owned portion)	October 2021	WOFH	Yes	In process. Construction is not impacted as the ROE for right to access and construct is executed. Working with DLNR for permanent rights.
DOE – Waipahu H.S. (117)	Permanent Easement (City portion)	July 2021	WOFH	Yes	HECO approved easement footprint and legal descriptions for HECO easements. DLM circulating proposed easements to city stakeholders to ensure there is no conflict. DOE executed a reformatted version of the HECO ROE, after a 9 month delay. Waiting for go-ahead from DLM in regard to City “surplussing” procedure and approval to proceed with DPP easement designation.
Aloha Stadium / Dept. of Accounting & General Services (DAGS) (207A to C)	Easement Agreement	July 2021	KHG	Yes	Easement maps approved by stakeholders and submitted to DPP for easement designation in the last week of April 2021. Easement Agreement first draft should be completed by the end of July and ready for DAGS/DLNR/Stadium Authority review.

Inter-Governmental Agreements					
Agency	Pending Agreements	Target	Section	Construction Right of Entry (CROE) Obtained	Notes/Remarks
Aloha Stadium/ DAGS (207B)	Ground Lease Agreement for bus interface and shared parking area	December 2021	KHG	Yes	COR counsel and State AG are looking to locate a suitable ground lease template from which to begin drafting the ground lease agreement. DTS, who will operate the park and ride lot, wants to use a Use and Occupancy Agreement format. MEMO to request update of BLNR approvals from 2013 in DRAFT. Requested updates include HDOT and BWS easements/ station as perpetual easement/ Use and Occupancy Agreement format as preferred documentation for park and ride lot. Still working between DLNR/DAGS/Stadium Authority to finalize "update memo" for BLNR review and approval.
HDOT(H) – Dept. of Transportation Highways (100,100-A, 304, 400-A, 400-B)	Master Agreement Amendment	2021	WOFH	Yes	Construction is not impacted as the Joint Use & Occupancy (JU&O) Agreement for right to access and construct is executed.
HDOT(H) (100,100-A, 304, 400-A, 400-B)	JU&O Sub-agreement Amendment	2021	WOFH	Yes	In process. Construction is not impacted as the JU&O for right to access and construct is executed.
HCDTA -HI Community Development Authority (444A, 450,463BE-5-B, 475)	Construction ROE, License Agreement, & Final Disposition	2021	City Center		Coordination is ongoing. ROE for Royal Contracting pre-construction activities extended. Final disposition pending revised design.
DAGS (441-A)	Construction Right of Entry	July 2021	City Center		A street/ driveway is being designed substantially within the footprint of Easement U as requested by DAGS as a precondition to ROE. The street/driveway will be provided as in-kind consideration for a staging yard for the 3 rd party contractor. MOA between DAGS, HART, Hawaii Housing Finance & Development Corporation (HHFDC) and contractor is under negotiation. MOA with HCDTA suggested revision expected to be received on July 2, 2021. Survey for staging area is being conducted and the street/driveway concept plan is undergoing refinement. RFP for CCUR work will produce a contractor with which to negotiate. Appraisal quote approved by HART Management. Appraisal will serve as a back-up plan to pay DAGS just compensation for real property rights acquired.
DAGS (441-A)	Guideway and Utility Easement Agreement	August 2021	City Center		Design plans for the Kaaahi Street driveway extension are still being refined and vetted with the City.

Inter-Governmental Agreements					
Agency	Pending Agreements	Target	Section	Construction Right of Entry (CROE) Obtained	Notes/Remarks
DAGS (443-A)	Utility, (Communications & Electrical) Agreement	July 2021	City Center	No	Letter requesting issuance of ROE submitted to DLNR/DAGS on June 22, 2020. ROE pulled from Sept. 11 BLNR meeting, as HECO is revising the easement size. HECO submitted a revised plan for the transformer location. The HECO revised Easement plan is expected to be received July 2, 2021. Map currently being generated.
DAGS (443-B)	Guideway and TCE Agreement	August 2021	City Center	No	On-going negotiations with DAGS to secure right of entry. Agreement being negotiated for loss of parking revenue during construction of column in parking area. This is a guideway easement with lower priority than area utility easements.
Kalihi Kai Elementary (501)	Right of Entry from DOE/DLNR	July 2021	City Center		Communications with DOE is ongoing regarding "in kind" consideration in the form of air conditioning equipment. Appraisal underway. DOE wants this decided prior to issuance of ROE. Possible new take for relocation of 46kV underground line. Appraisal on hold until this aspect of design is confirmed.
Kalihi Kai Elementary (501)	Easement Agreement	December 2021	City Center		Design not finalized. Notice of Intent to Acquire containing enlarged electrical footprint for electrical easement and a new column easement was sent in late May 2020. This will need to be amended if an underground line is relocated onto school property. Easement map will require revision, once design is approved. Appraisal scope being developed to account for design changes.
State of Hawaii - DOT (504)	Easement Agreement	Pending	City Center		HECO amending easement design and under review.
FEDERAL AGREEMENTS					
USPS (301)	Permanent Easement	2021	Airport	Via GOE	Construction is not impacted. Grant of Easements were recorded in Regular System to facilitate entry onto property for construction even though the property is registered in Land Court. Priority is to get a piece of existing road transferred to HDOT-Airports.
U.S. Gov't/General Services Administration (GSA)/Federal Courthouse (443C)	Master Agreement, Security & Landscape License Agreement, Utility License Agreement, Guideway License Agreement	September 2021	City Center		Landscaping and Security Improvement plans reviewed by GSA. Design is being amended to reflect GSA requested revisions. Possible utility design revision currently being discussed with HART's design and construction team.
GSA Federal Courthouse	Quitclaim Easement Documents for Utility and Guideway Easements	August 2021	City Center		Under development.
CITY AGREEMENTS					

Inter-Governmental Agreements					
Agency	Pending Agreements	Target	Section	Construction Right of Entry (CROE) Obtained	Notes/Remarks
BFS – Dept. of Budget & Fiscal Svcs (204A)	Intra-Agency coordination which may take the form of a ROE, letter agreement, or license (Continental Investment)	2021	KHG	Via intra-agency coordination	In process.
DFM (423A)	Easement Agreement for Utilities	2021	City Center		Utility agreements on hold, pending design finalization. The property work access was granted in late March 2020 by DFM.
DTS – Dept. of Transportation Svcs (322)	Intra-Agency coordination which may take the form of a ROE, letter agreement, or license (Middle Street Station)	2021	Airport	Via intra-agency coordination	In process.
OTHER AGREEMENTS					
D.R. Horton (101B)	License Agreement for Interim Park and Ride, MOU, Easement Agreement – D.R. Horton & HECO	July 2021	WOFH	Yes	Still waiting on DTS comments to license agreement and proof of insurance. Interim Parking lot paving complete.
D.R. Horton	Final Easement Agreement	July 2021	WOFH	Yes	First draft of easement agreements (guideway/station/drainage) and HECO easements, target completion July 15. Construction is not impacted. DPP approved the survey map and legal descriptions designating easements in May 2021.

2.7 Hawai'i Department of Transportation (HDOT) Agreements

Activities this Month

- Continued coordination related to the Highway Improvement Agreement. Finalized and submitted the ROW Certification-1 request letter required to enable billing for Highway Improvement Invoice 6 (completed KHG/KHR Highway Improvements). Coordinating the requirements for Highway Improvement Invoice 7 (completed projects that will be funded by the State). Developing a draft list of Highway Improvement Invoice 8 projects and requesting additional Task Order information for the completed on-call projects.
- The West construction group continues to track and address outstanding punchlist items for the West O'ahu Farrington Highway City Maintained State Highway. Continued effort to finalize the dry utility record drawing changes for incorporation into the various agreement Exhibit A's. Developed the Sandwich Isle Communications West O'ahu/Farrington Highway (WOFH) Exhibit A for the utility/HDOT review. Reviewed comments and revised the agreement exhibits for City and County of Honolulu Department of Environmental Services (ENV) and Board of Water Supply (BWS).
- Merit received for the WOFH Master Agreement Amendment 1 from the internal HART change committee. Coordinating with DTS to obtain the City Council Resolution.
- Revised the Joint Use and Occupancy Agreement Amendment 2 contents based on DTS comments and the Waiawa Stream Operations and Maintenance manual. Coordinating the modifications with HART Corporation Counsel.
- Submitted the Kamehameha Highway City Maintained State Highway request to HDOT. Final walkthroughs to occur in July 2021. Completion of punchlist and turnback of the highway was requested for October 2021.

Look Ahead

- The Kuala left-turn bid opening is on July 9, 2021. Upon receipt of bids, confirm the Highway Improvement fund participation with HDOT.
- Submit the Environmental Clearance request for the Highway Improvement Invoice 6. Upon approval of the ROW Certification-1 and Environmental Clearance, submit the Highway Improvement Invoice 6 to HDOT (approx. \$5.5 million). Invoice 6 to be completed by September 2021. Continue to advance the Highway Improvement 7 and 8 invoices.
- Continue to work with DTS to obtain the City Council Resolution for the West O'ahu Farrington Highway Amendment 1. Work with DTS on the schedule for the Resolution.

- Upon concurrence of the West O‘ahu Farrington Highway Joint Use and Occupancy Amendment 2 from Corporation Counsel, re-route the draft amendment to HDOT; expect to send the revised draft Amendment in July 2021.
- Develop a plan and schedule for finalizing the items on the HDOT West O‘ahu Farrington Highway punchlist by July 2021.
- Continue coordination with HDOT and Utilities to execute the various Utility Use and Occupancy agreements, expected completion of agreements by Q4 2021. Coordinate the third party Exhibit A reviews with Sandwich Isle Communications (SIC), ENV and BWS. Complete the dry utility record drawing changes. Expected completion July 2021.

2.8 Utility Agreements

Overall Key Issues

- Ka‘aahi Substation Supplemental Agreement (SA)
 - Corporation Counsel continues to work with HART to revise the SA, based on comments from HECO executives. Core Systems provided updated power load requirements to HECO, on June 14, 2021.

2.9 Permits

Permits Submitted and In-Progress

- HART submitted the Hawai‘i Community Development Authority (HCDA) Municipal Separate Storm Sewer System (MS4) application for an extension in time.
- HART received an extension for Community Noise Permit No. O 19-106 for Airport Guideway and Stations (AGS) guideway construction, until July 7, 2022.
- HART is preparing the application for an extension of time for the AGS Noise Variance for guideway and utility construction.
- HART continues to prepare the Drainage Connection License for permanent connections to the Airport MS4.
- HART is preparing closing documents for the West O‘ahu Station Group, Farrington Highway Station Group, Kamehameha Highway Station Group, and City Center Utility Relocation grading and stockpiling permits.

Look Ahead

- Waiawa Stream Bank: HART assembled photos of Waiawa Stream bank stabilization and updated regulatory agencies on the status of Phase 2 (Pearl Highlands Station construction) permitted by a Section 404 individual permit, Section 401 Water Quality Certification, and Stream Channel Alteration Permit. These permits will need to remain in effect through construction of Phase 3, Pearl Highlands Garage.

2.10 Construction

DBOM920: Core Systems Contract (CSC)

Contractor: Hitachi Rail Honolulu Joint Venture (HRH)

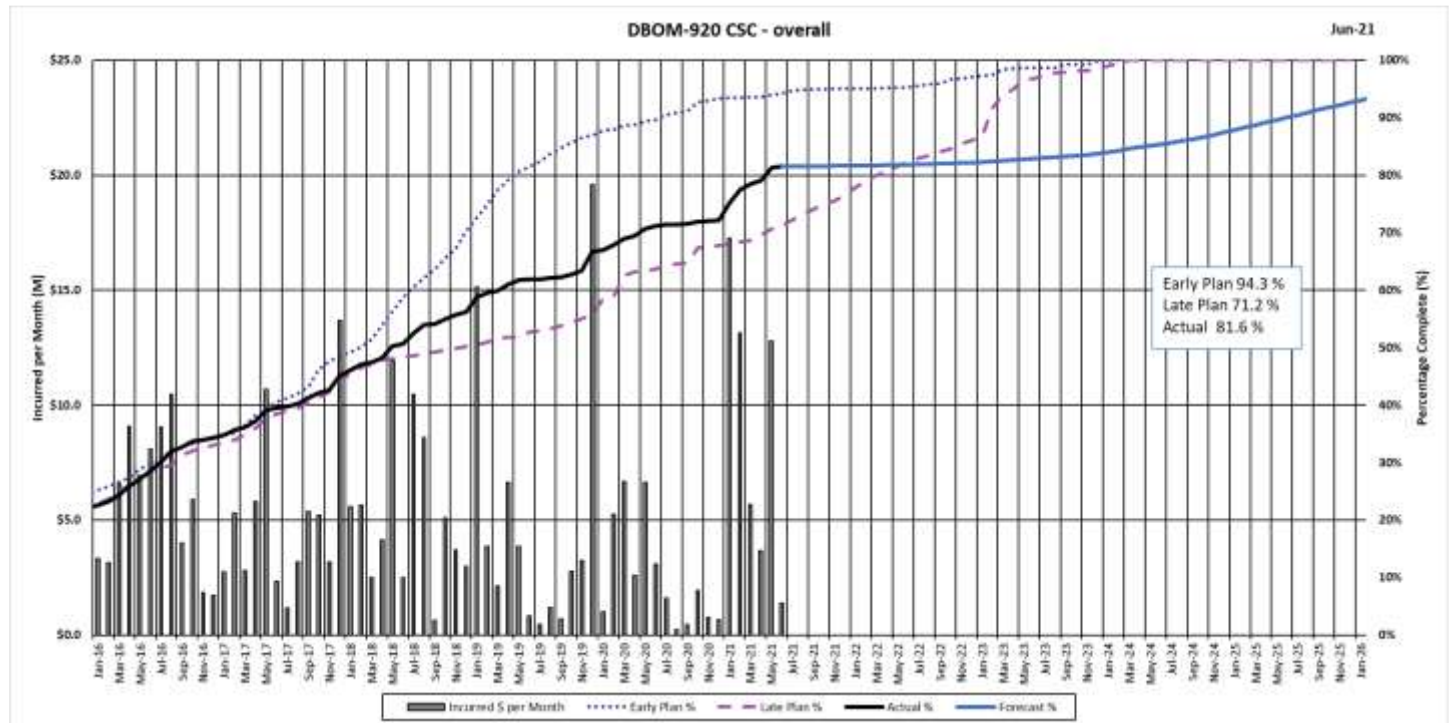
Contract Substantial Completion: January 1, 2025

Contract Start Date: January 2012

Projected Completion of Work: October 2029

Project Description: A design, build, operate and maintain contract to provide rail passenger vehicles, automated train control system, traction electrification system (TES), communication systems, passenger platform screen gates (PSGs), and operation and maintenance of the Core Systems.

OVERALL STATUS:



PROGRESS FOR 2022 OPERATIONAL READINESS 1:

PROGRESS FOR OPERATIONAL READINESS 1 HANDOVER TO DTS



Legend: Green=Goals Completed

Blue=Remaining

Grey=Trial Run thru hand over to DTS

ACTIVITIES THIS MONTH:

Design:

- Design submittal reviews for Traction Electrification System (TES) and Traction power backup generator integration were reviewed and approved.
- Hitachi Rail Italy (HRI) has provided a preliminary design for a wider wheel that is compatible with the double crossover.

Manufacturing:

- Train #19 has been delivered to the Maintenance and Storage Facility.
- Hitachi Rail USA, Inc. (HRU) has initiated plans to install the HVAC unit and other roof mounted equipment on the new car of Train #2 in Miami.
- Train #1 installation of interior panels and under car rework are substantially completed. Testing is in progress.
- Train #2 heat shields are installed; however, a few heat shields components are missing to complete the retrofit under the car.

Installation, Testing and Commissioning:

- HRH continues to closeout punchlist items for Segment 1 and the Maintenance and Storage Facility (MSF) TES System, Automatic Train Control (ATC) System and Communications (COMMs) System.
- HRH has started testing the Signaling Network Management System.
- HRH delivered onboard ATC software baseline 14 and has substantially completed regression testing on the Operational Readiness #1 fleet.
- HRH completed 90% of Central Test Procedure (CTP) testing.
- HRH has substantially completed testing the Supervisory Control and Data Acquisition (SCADA) function with the Traction Electrification System, with no remaining open items.
- HRH continues to close out open items and Non-Conformance Reports (NCRs) for Operational Readiness #1 fleet - Train #8 to Train #14.
- HRH continues to perform system burn in with the Operational Readiness #1 fleet - Train #8 to Train #14.

LOOK AHEAD:

- Complete Signaling Network Management System testing.
- Complete outstanding Communication system (COMMS) tests in the MSF and Segment 1.
- Complete remaining open items and test reports for each subsystem as pre-requisites to begin trial running.
- Begin Trial Run for Operational Readiness #1.

KEY ISSUES:

Key Issues with Contractor Proposal	
Title	CPC Code
• Vehicle Extended Warranty for Carbody Bolster (Extrusion)	P
• Pouhala (Waipahu) Makai Entrance	A
• Increased CSC DB MOB Costs for Operational Readiness #1	P
• Comms Box Grounding & Bonding	B
• Slide Pad Welds	A
• Retrofit Existing Macton 20 Ton Portable Jacks	A

LEGEND: A = less than \$1 million; B = \$1 million-\$5 million; C = greater than \$5 million; P = pending contractor submittal

QUALITY MANAGEMENT:

- Three JDS Uniphase Corporation (JDSU) test equipment were found to be out of calibration. JDSU testing units are used for COMMS fiber testing and Secured Local Area Network (SLAN) testing. Corrective action was finalized for issue. Going forth, HRH test leads will be required to inspect all tools that require calibration on a bimonthly basis. Test leads will submit a report to the lead test engineer with photo verification.
- Paint/Wrapping Surface Defects: The missing decal on Train #10 is on-island, but has not yet been installed.

CSC NCR Log (Issued by HRH)			
	Total	Closed	Open
HRH & Subs	66*	64	2
Hitachi Rail	2,463	2,182	281
TOTAL	2,529	2,246	283

*the total NCRs were corrected from last month, due to a clerical error

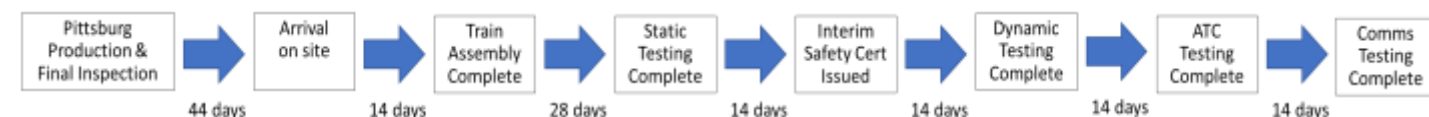
TRAIN SCHEDULE:

Train	Pittsburg/ Miami Production & Final Inspection	Arrival on site	Train Assembly Complete	Static Testing Complete	Safety cert issued	Dynamic Test complete	ATC Test Complete	Comms Test Complete
1	8/16/2021	8/31/2021	9/14/2021	10/12/2021	10/26/2021	11/9/2021	11/23/2021	12/7/2021
2	12/18/2021	1/18/2022	2/1/2022	3/1/2022	3/15/2022	3/29/2022	4/12/2022	4/26/2022
3	Complete	Complete	Complete	Complete	Complete	10/1/2021	10/15/2021	10/29/2021
4	Complete	Complete	Complete	Complete	Complete	11/1/2021	11/15/2021	11/29/2021
5	Complete	Complete	Complete	11/1/2021	11/15/2021	11/29/2021	12/13/2021	12/27/2021
6	Complete	Complete	Complete	12/1/2021	12/15/2021	12/29/2021	1/12/2022	1/26/2022
7	Complete	Complete	Complete	Complete	Complete	Complete	2/28/2022	3/14/2022
8	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete
9	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete
10	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete
11	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete
12	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete
13	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete
14	Complete	Complete	Complete	Complete	Complete	Complete	Complete	Complete
15	Complete	Complete	Complete	Complete	Complete	Complete	5/10/2021	5/24/2021
16	Complete	Complete	Complete	6/22/2021	7/6/2021	7/20/2021	8/3/2021	8/17/2021
17	Complete	Complete	Complete	7/26/2021	8/9/2021	8/23/2021	9/6/2021	9/20/2021
18	Complete	Complete	Complete	7/26/2021	8/9/2021	8/23/2021	9/6/2021	9/20/2021
19	Complete	Complete	7/9/2021	8/6/2021	8/20/2021	9/3/2021	9/17/2021	10/1/2021
20	2/1/2022	2/18/2022	3/4/2022	4/1/2022	4/15/2022	4/29/2022	5/13/2022	5/27/2022

= In Progress

= Floor retrofit to be completed

= Train is part of Initial revenue fleet

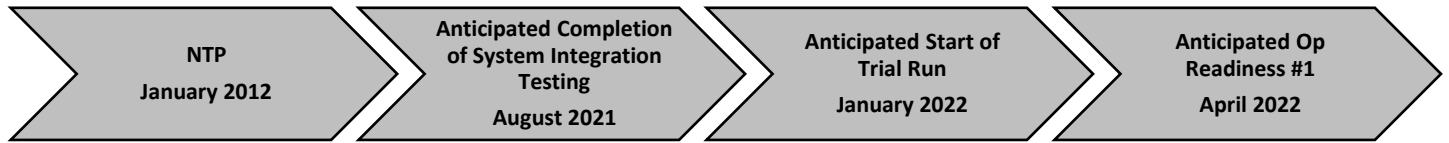


Note: All durations are calendar days, not business days

Design & Construction		Vehicles	Schedule Status
Physical % Complete	75.1%	94.3%	4 years and 10 months behind
Early Plan*	92.1%	98.5%	
Late Plan*	74.6%	64.6%	

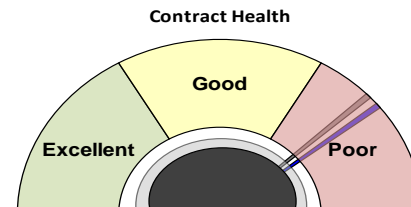
*Data as of June 25, 2021. The progress chart reflects early program expectations. Progress is being tracked against interim Construction Access Milestone dates and accepted baseline schedule.

KEY MILESTONES:



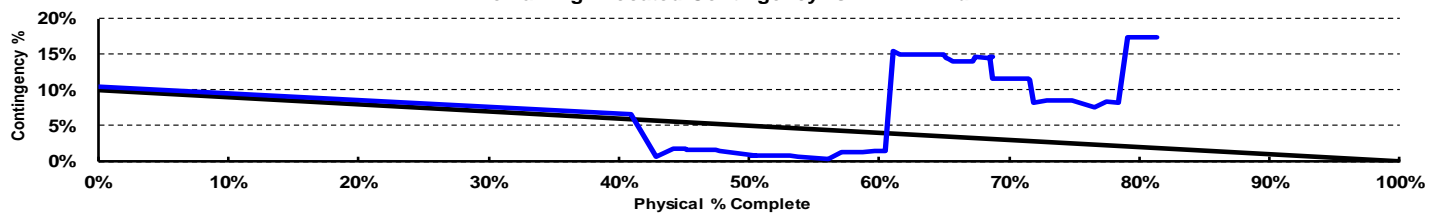
COST SUMMARY:

Description	Current Period (Jun-2021)		
	FFGA	O&M	Total CPP
1. Original Contract	573,782,793	823,604,300	1,397,387,093
2. Approved Change Orders	212,322,937	-	212,322,937
3. Current Contract Value (1+2)	786,105,730	823,604,300	1,609,710,030
4. Pending Changes	200,000	-	200,000
5. Potential Changes	39,041,369	58,014,164	97,055,533
6. Potential Claims	-	-	-
7. Non-Contractual Expenses	18,373	-	18,373
8. Total Forecast (3+4+5+6+7)	825,365,472	881,618,464	1,706,983,936



Changes as a % of Award 37% Changes & Potential as a % of Award 44%

Remaining Allocated Contingency vs FTA Minimum



DBB921: Passenger WiFi System**Contractor:** Icomera US, Inc.**Contract Substantial Completion:** September 2022**Contract Start Date:** September 2020**Projected Completion of Work:** December 2022

Project Description: Design, procure, provide and test a complete functional Passenger WiFi System (PWS), including all equipment and services for passengers to have WiFi access to the internet from all of HART's twenty (20), four-car trains.

ACTIVITIES THIS MONTH:

- Continued to address open comments and resolutions on the Buy America Plan, Test Procedures, and System Performance Test schedule.
- Supported interface meeting discussions with Hitachi to enhance the systems integration process.
- Maintained bi-weekly calls and prioritized Contract Document Requirements List (CDRL) deliverables including procurement of material for Operational Readiness #1 trains.
- Continued to update the Baseline Schedule to be in line with the duration and cadence provided by Hitachi.
- Submitted a Request for Interface Data (RFID) in regards to the Cable Schedule to Hitachi to incorporate in the final WiFi mechanical design package.
- Completed the second payment request.

LOOK AHEAD:

- Delivery of material for the Operational Readiness #1 trains.
- Provide on-site pre-installation training to the installer and conduct pilot program.

KEY ISSUES:**Key Issues with Contractor Proposal**

Title	CPC Code
• None	N/A

LEGEND: A = less than \$1 million; B = \$1 million-\$5 million; C = greater than \$5 million; P = pending contractor submittal

QUALITY MANAGEMENT:**Passenger WiFi System NCR Log (Issued by Icomera US, Inc.)**

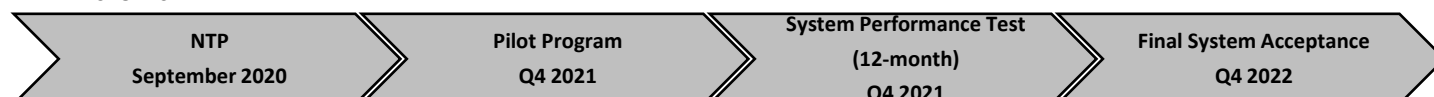
Total NCRs Issued to Date	Closed	Open
0	0	0

SCHEDULE:

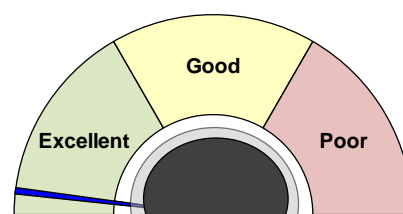
- Pilot program, scheduled to be complete in Q4 2021, could be impacted by pending Hitachi design and limited work access on the train due to other high priority tasks.

Progress		Schedule Status
Physical % Complete*	6.5%	3 months behind
Early Plan*	86.0%	
Late Plan*	82.9%	

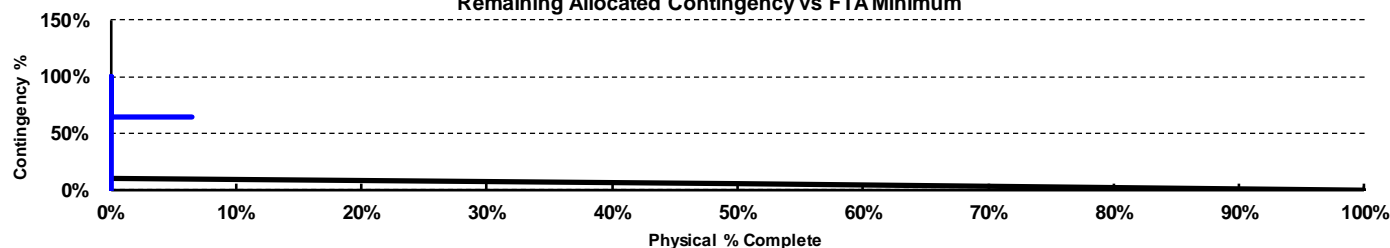
*Data as of June 25, 2021.

KEY MILESTONES:**COST SUMMARY:**

Description	Current Period (Jun-2021)		
	FFGA	O&M	Total CPP
1. Original Contract	1,219,858	-	1,219,858
2. Approved Change Orders	-	-	-
3. Current Contract Value (1+2)	1,219,858	-	1,219,858
4. Pending Changes	-	-	-
5. Potential Changes	-	-	-
6. Potential Claims	-	-	-
7. Non-Contractual Expenses	-	-	-
8. Total Forecast (3+4+5+6+7)	1,219,858	-	1,219,858

Contract Health

■ Changes as a % of Award 0% ■ Changes & Potential as a % of Award 0%

Remaining Allocated Contingency vs FTA Minimum

MI940: Traction Power Backup Generators**Contractor:** PAC Electric Co., Inc.**Contract Substantial Completion:** February 2021**Contract Start Date:** December 2019**Projected Completion of Work:** December 2021

Project Description: Procurement of Traction Power Backup Generators, which are to be located at or near the Traction Power Substations (TPSSs) at the West Loch and Pearlridge passenger stations. The generators will provide the means for moving stranded trains into the HRTTP passenger stations, in case of an island-wide or regional power outage event.

ACTIVITIES THIS MONTH:

- Performed work at West Loch and Pearlridge TPSS sites to close open punchlist items.
- Conducted punchlist closure walk through with HART, HART Safety and DTS.

LOOK AHEAD:

- Coordinate remaining work on contract with HRH, pending HRH schedule.

KEY ISSUES:

Key Issues with Contractor Proposal	
Title	CPC Code
• HRH Schedule Delays	A

LEGEND: A = less than \$1 million; B = \$1 million-\$5 million; C = greater than \$5 million; P = pending contractor submittal

QUALITY MANAGEMENT:

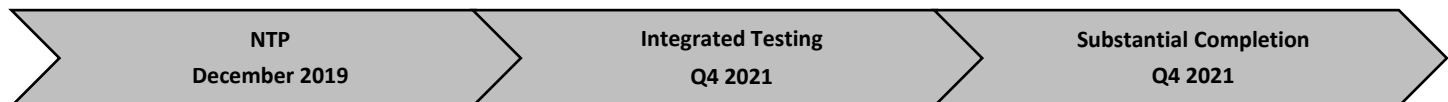
Traction Power Backup Generators NCR Log (Issued by PAC Electric Co., Inc.)		
Total NCRs Issued to Date	Closed	Open
0	0	0

SCHEDULE:

- SCADA and transfer load test with HRH; this is pending HRH's schedule to test, which is anticipated to be in December 2021. HRH has released procurement documents for site civil works.

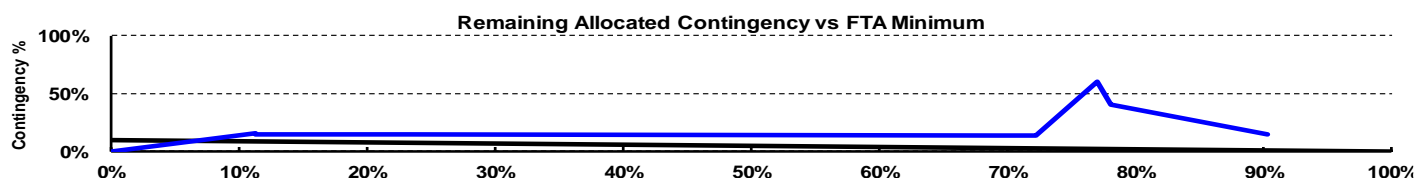
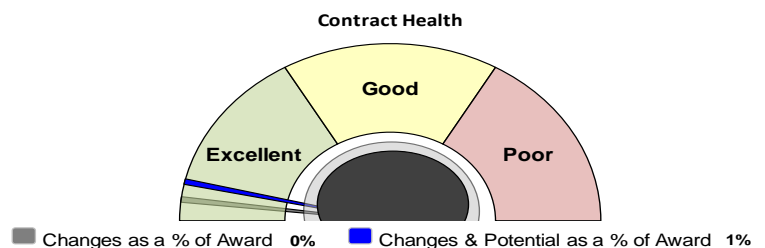
Progress		Schedule Status
Physical % Complete	90.9%	10 months behind
Early Plan*	100%	
Late Plan*	100%	

*Data as of June 25, 2021.

KEY MILESTONES:**COST SUMMARY:**

Description	Current Period (Jun-2021)		
	FFGA	O&M	Total CPP
1. Original Contract ¹	18,965,000	-	18,965,000
2. Approved Change Orders	75,000	-	75,000
3. Current Contract Value (1+2)	19,040,000	-	19,040,000
4. Pending Changes	164,000	-	164,000
5. Potential Changes	-	-	-
6. Potential Claims	-	-	-
7. Non-Contractual Expenses	-	-	-
8. Total Forecast (3+4+5+6+7)	19,204,000	-	19,204,000

¹Amount includes costs of future contract awards



MI930: Elevators and Escalators Manufacture-Install-Maintain (MIM)**Contractor:** Schindler Elevator Corporation**Contract Start Date:** August 2013**Contract Substantial Completion:** December 2023**Projected Completion of Work:** February 2024 (see the Schedule section below)**Project Description:** A contract to design, fabricate, install, test, commission, and maintain all elevators and escalators at all 21 stations.**ACTIVITIES THIS MONTH:**

- West Side Stations Groups (WSSG) equipment continues to undergo monthly preventative maintenance.
- Continued coordination with Shimmick/Traylor/Granite, Joint Venture (STG) for equipment installation for AGS stations.

LOOK AHEAD:

- Receive final operating permit from the State for Pearlridge Elevator #2 (currently have a temporary operating permit).
- Install Escalator #1 at Makalapa (Pearl Harbor Naval Base) Station in July 2021.
- Begin installation of Elevator #2 at Āhūa (Lagoon Drive) Station in August 2021.
- Begin installation of Elevators #1 and #2 at Makalapa (Pearl Harbor Naval Base) Station in September 2021.

KEY ISSUES:**Key Issues with Contractor Proposal**

Title	CPC Code
• None	N/A

LEGEND: A = less than \$1 million; B = \$1 million-\$5 million; C = greater than \$5 million; P = pending contractor submittal

QUALITY MANAGEMENT:

Elevators and Escalators NCR Log (Issued by Schindler)		
Total NCRs Issued to Date	Closed	Open
0	0	0

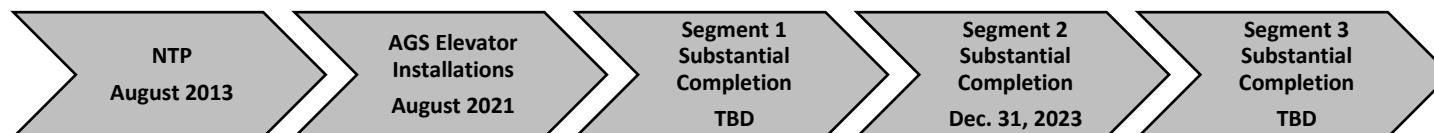
SCHEDULE:

- The Elevators and Escalators (E&E) contract substantial completion date is December 2023. The final completion date will be determined once the CCGS contract is awarded and the CCGS contract's scheduled installation dates are established.

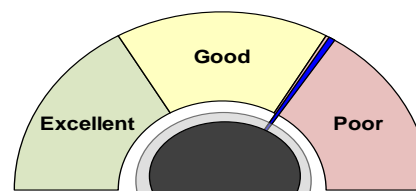
Progress		Schedule Status
Physical % Complete	49.9%	Just in Time**
Early Plan*	72.4%	
Late Plan*	TBD	

*Data as of June 25, 2021.

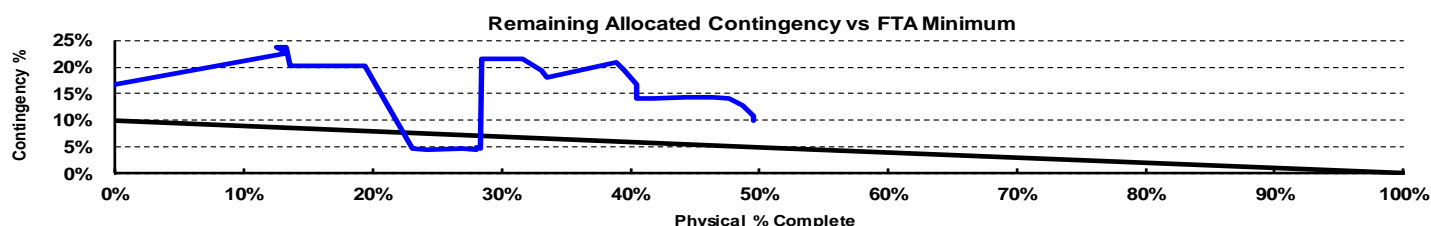
**The E&E schedule is dependent on other contractors' schedules. Actual release for manufacturing will be coordinated for a 'just in time' delivery.

KEY MILESTONES:**COST SUMMARY:**

Description	Current Period (Jun-2021)		
	FFGA	O&M	Total CPP
1. Original Contract	52,652,738	21,713,236	74,365,974
2. Approved Change Orders	7,905,131	-	7,905,131
3. Current Contract Value (1+2)	60,557,869	21,713,236	82,271,105
4. Pending Changes	-	-	-
5. Potential Changes	-	-	-
6. Potential Claims	-	-	-
7. Non-Contractual Expenses	-	-	-
8. Total Forecast (3+4+5+6+7)	60,557,869	21,713,236	82,271,105

Contract Health

■ Changes as a % of Award 15% ■ Changes & Potential as a % of Award 15%



MI900: Fare Collection System

Contractor: INIT, Innovations in Transportation, Inc.

Contract Start Date: April 2016

Projected Completion of Design-Build Work: March 2026

Project Description: The fare collection system is a joint HART and City and County of Honolulu [Department of Transportation Services (DTS), Department of Information Technology (DIT), Budget and Fiscal Services (BFS)] project that will consist of a multi-modal, closed loop, account based smart card system. The Fare System vendor, INIT Innovations in Transportation, Inc., is responsible for design, manufacture, testing, installation and operation of the entire system inclusive of hardware and software.

The rail portion of the project will consist of Ticket Vending Machines (TVMs) and fare gates at stations that accept smart cards which can also be used for payment on board TheBus and facilitate a seamless transfer between modes. Equipment and software to be used by both HART and the City and County will include transaction processing, fare equipment monitoring, and customer service systems, as well as a Data Warehouse. TheBus equipment will consist of stand-alone smart card readers on board.

ACTIVITIES THIS MONTH:

- Amendment 11: Completed cleaning and wrapping rail fare gates at all stations within Segment 1.
- Website translations moved into production, and testing completed.
- Delivery of Retail Sales Terminals completed for all 7-11 store locations.

LOOK AHEAD:

- 70% System Acceptance Testing certification by DTS (30% will continue to be withheld until all fare collections documents are finalized, TVM text and audio translations are completed, third party Qualified Security Assessor (QSA) Payment Card Industry (PCI) gap analysis is performed, and 10,000 clean transactions reached after interim rail start).
- A third party QSA will perform a PCI gap analysis on the fare collections system. (In planning)
- Translations for TVM screens and audio messages will be completed. (In development)
- Remaining fare systems manuals/work instructions will be completed, per final responses, and will then be submitted to close out Operational Readiness Conformance Checklist (ORCC) open item. (In Progress)
- Order Operational Readiness #1 TVM revenue service vaults. (In Progress; approval from HART Contract Change Committee (CCC) received on June 25, 2021).

KEY ISSUES:

Key Issues with Contractor Proposal	
Title	CPC Code
• TVM, Pre I01 Upkeep, Faregate Alarm & Monitoring	P
• Faregate Shims and Training Video	P

LEGEND: A = less than \$1 million; B = \$1 million-\$5 million; C = greater than \$5 million; P = pending contractor submittal

QUALITY MANAGEMENT:

Fare Collection NCR Log (Issued by INIT)		
Total NCRs Issued to Date	Closed	Open
0	0	0

SCHEDULE:

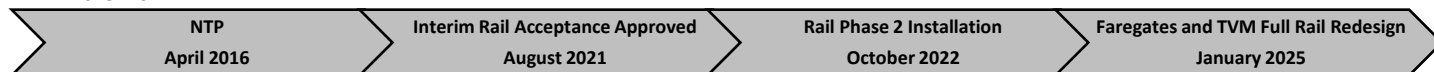
- Bus systems operations and maintenance to be transitioned to DTS (Inventory review and sign off expected August 2021).

Progress		Schedule Status
Percent Complete	77.1%	12 Months Behind Milestone Schedule Payment**
Early Plan*	97.7%	
Late Plan*	96.6%	

*Data as of June 25, 2021. Planned information is being evaluated based on the current (full-alignment) scope versus the revised requirements of the Operational Readiness #1 completion date.

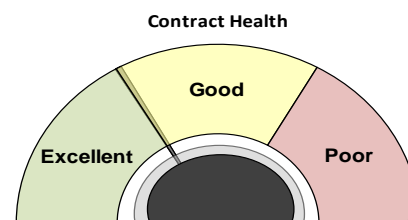
**Although the contract is 12 months behind schedule, it does not impact Operational Readiness #1 or the full Operational Readiness.

KEY MILESTONES:

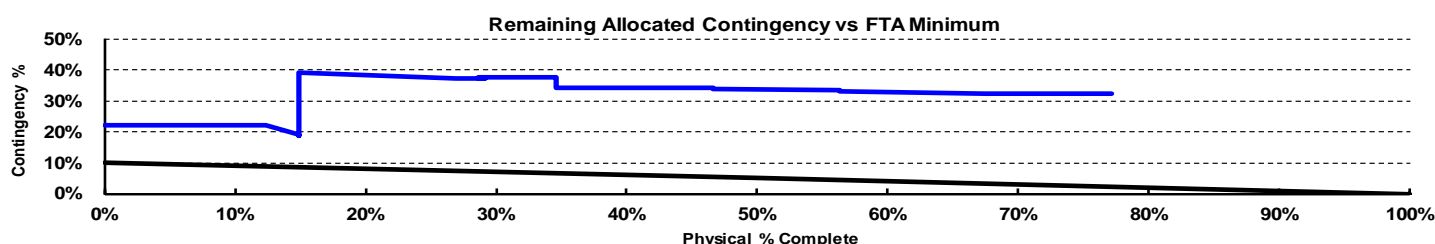


COST SUMMARY:

Description	Current Period (Jun-2021)			
	FFGA	DTS	O&M	Total CPP
1. Original Contract	11,876,803	11,876,803	8,903,991	32,657,596
2. Approved Change Orders	1,197,745	49,102	-	1,246,847
3. Current Contract Value (1+2)	13,074,548	11,925,905	8,903,991	33,904,444
4. Pending Changes	201,538	38,743	-	240,281
5. Potential Changes	-	-	-	-
6. Potential Claims	-	-	-	-
7. Non-Contractual Expenses	-	-	-	-
8. Total Forecast (3+4+5+6+7)	13,276,086	11,964,648	8,903,991	34,144,725



Changes as a % of Award 10% Changes & Potential as a % of Award 12%



MM-949: On-Call Construction IV

Contractor: Royal Contracting Co., Ltd.
Contract Substantial Completion: January 2023

Contract Start Date: January 2018
Projected Completion of Work: January 2023

Project Description: This is an on-call contract to perform a variety of construction services by issuance of Task Orders. The construction services to be provided will include, but are not limited to, maintenance, renovations to existing privately owned properties, demolition of buildings/structures, repairs to existing HART facilities, temporary utilities installations, utilities relocation, new construction projects or services, maintenance of roadways inclusive of, filling potholes, removing dead animals, landscape maintenance, repairing/replacing signage, and other such activities to HDOT and/or City and County of Honolulu standards, work in support of HART's ongoing construction activities, and work in support of other HART contractors.

ACTIVITIES THIS MONTH:

- Continued the required maintenance along Farrington Highway and Kamehameha Highway, as required for the JUOA, and completing HDOT punchlist items in preparation of returning these sections of highway back to HDOT.
- Relocation of the HECO powerline in Zone 9 that allows STG to drill shafts 633L and 633R.
- Completed pulling cable and splicing the primary portion of Zone 8B in preparation of energizing in July.
- Have requested HECO to approve the relocation of the electrical line in Zone 8B in June in preparation for completing the primary portion of Zone 8B.

LOOK AHEAD:

- Continue to cut grass, trim trees, and provide the required maintenance as described in the JUOA.
- Continue to issue task orders for items identified in On-Call Amendment 2 that are associated with closing out the Westside projects.

KEY ISSUES (new issues are in bold font):

- In order to energize, need to receive the HECO right of entry agreement along Waiwai Loop from SCI; all other agreements have been received. Discussions continue to be between HART's and SCI's lawyers, as stipulated by SCI's owner.

QUALITY MANAGEMENT:

On-Call Construction IV NCR Log (Issued by Royal Contracting)		
Total NCRs Issued to Date	Closed	Open
0	0	0

SCHEDULE:

- The On-Call Contract is a Task Order based Indefinite Delivery/Indefinite Quantity (IDIQ) contract. The work consists of meeting the objectives of HART. Below, please find a list of active Task Orders being worked on.

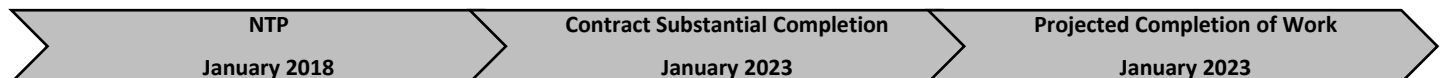
Task Order Number	Description - On-Call IV Contract	Date Issued	Initial Completion Date	Planned Completion Date	Original Dollar Cost	Current Amended Dollar Cost	Billed Amount
5	HDOT Maintenance from WOFH ROW to East End of H RTP ROW	2/28/2018	6/29/2021	12/31/2021	\$1,721,853.38	\$2,496,647.50	\$2,458,822.00
6	Maintain HART Properties	2/28/2018	12/29/2020	12/31/2021	\$544,677.79	\$610,682.37	\$606,595.90
8	Removal and Transplant Trees Along Entire H RTP ROW	2/28/2018	12/30/2020	12/31/2021	\$615,088.03		\$584,437.16
12	Restore Power & Water at 1211 Kona St	2/28/2018	12/30/2020	12/31/2021	\$701,108.54	\$1,091,789.01	\$873,383.01
13	Assist AGS Contractor with Out of Scope Activities	4/8/2018	12/31/2020	12/31/2021	\$1,015,447.77	\$1,671,717.38	\$1,259,318.88
18	Assist CCUR Contract & Future CCGS DB P3 Contractor	4/30/2018	12/30/2021	12/31/2021	\$1,333,292.83	\$1,460,203.77	\$1,381,118.00
41	Barriers along H2R2 & Kamehameha Hwy	3/17/2019	12/30/2021	12/30/2021	\$43,580.75		\$34,550.00
48	Construct Middle Loch Connector Emergency Exit Rd	3/31/2019	12/30/2020	12/31/2021	\$525,564.67	\$153,025.36	\$130,890.00
49	Overhead Utility Relocations, Farrington Highway	3/31/2019	12/30/2020	12/31/2021	\$790,980.29		\$662,560.00
51	Construction of Farrington Hwy & Pupukahi St Curb Return	4/17/2019	9/29/2020	12/31/2021	\$412,593.75	\$136,026.95	\$108,972.00
63	Farrington Hwy Improvements & Striping	8/15/2019	12/30/2020	7/31/2021	\$1,098,800.00	\$1,324,977.92	\$1,143,166.00
66	AGS Cabling Work for Zones 8 & 9	9/24/2019	12/30/2020	11/30/2021	\$3,961,966.49	\$5,831,966.49	\$3,518,283.00
72	Cost to Cure at Blood Bank of HI, 2043 Dillingham Blvd	1/5/2020	12/30/2020	12/31/2021	\$181,073.38	\$57,812.55	\$44,710.00

Task Order Number	Description - On-Call IV Contract	Date Issued	Initial Completion Date	Planned Completion Date	Original Dollar Cost	Current Amended Dollar Cost	Billed Amount
78	Geotechnical Investigations, LCC	5/17/2020	9/30/2020	7/31/2021	\$193,797.52		\$12,306.00
81	Modifications to Nine Western Stations at Column 131	5/17/2020	6/29/2021	12/31/2021	\$1,058,117.48	\$1,585,033.13	\$716,705.25
83	Electrical work for the Ho'opili Park and Ride Temporary Lot	12/28/2020	4/30/2021	4/30/2021	\$598,315.28		\$3,699.00
84	Removal of contaminated soil from the Halekauwila yard under the direction of HART's Environmental Consultant	1/4/2021	8/31/2021	8/31/2021	\$793,523.54		\$4,906.00
85	Construction of an 18 inch storm drain at the West Loch Station entrance. This work is required to ensure proper drainage at the Mauka entrance.	2/13/2021	9/30/2021	9/30/2021	\$159,610.00		\$1,125.00
87	Reconstructing pavement and installing new loop detectors at East Kapolei Station	2/13/2021	9/30/2021	9/30/2021	\$210,303.05		\$1,439.00
88	Providing maintenance along Nimitz Highway in the CCGS corridor, as required by the JUOA agreement with HDOT, and to provide maintenance of HART assets along the CCGS corridor	3/1/2021	7/31/2022	7/31/2022	\$472,463.76		\$17,646.91
89	Provide Design for the Wood Working Shop located at 801 Halekauwila Street – TMK:2-1-052:046 PDQ 452	3/2/2021	12/31/2021	12/31/2021	\$49,345.29		\$0
90	Provide Repairs to Asphalt Pavement – Farrington Highway between Leokane Street and Pupukahi Street	3/12/2021	7/31/2021	7/31/2021	\$67,072.73		\$6,423.73
91	Remove debris under Kalauao Stream Bridget at Kamehameha Highway	4/26/2021	8/31/2021	8/31/2021	\$43,975.86		\$0
92	Repair asphalt at bus stop – Farrington Highway	5/3/2021	8/31/2021	8/31/2021	\$56,812.23		\$5,776.99
93	Repair guard rail east bound Farrington Highway	5/3/2021	8/31/2021	8/31/2021	\$24,273.45		\$5,266.44

Progress		Schedule Status	
Physical % Complete*	80.7%	On Time	
Early Plan*	86.0%		
Late Plan*	TBD		

*Data as of June 25, 2021.

KEY MILESTONES:



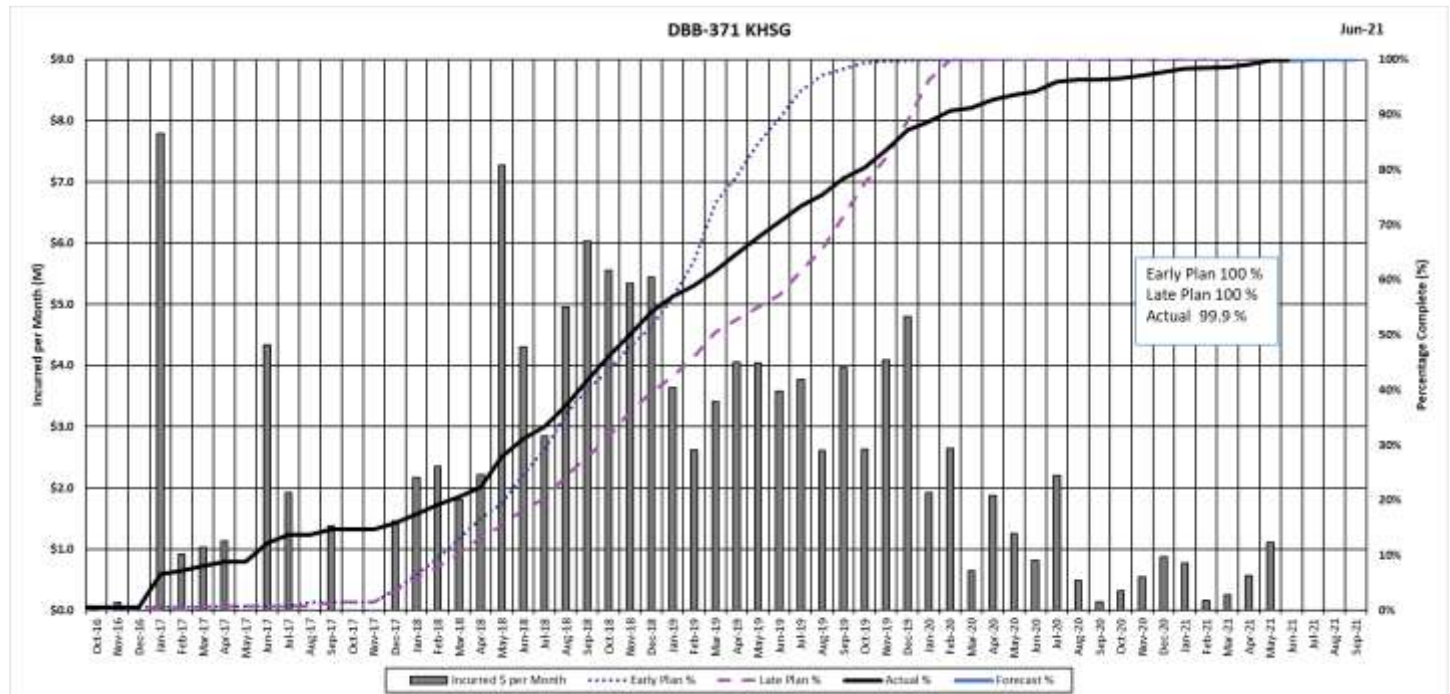
COST SUMMARY:

Description	Current Period (Jun-2021)		
	Original TO	Amendments	Total CPP
1. Aw arded TOs & Amendments	43,103,586	17,027,683	60,131,269
2. Unaw arded portion of Contract	-	-	3,968,731
3. Current Contract Value (1+2)	43,103,586	17,027,683	64,100,000
4. Pending Changes	-	-	-
5. Potential Changes	1,525,000	-	1,525,000
6. Potential Claims	-	-	-
7. Total Forecast (3+4+5+6)	44,628,586	17,027,683	65,625,000

¹Original Contract w as aw arded at \$46,000,000; Total Change Order amount added to contract is \$18,100,000. \$64,100,000 is the Current Contract Value

DBB371: Kamehameha Highway Station Group (KHSG)**Contractor:** Nan, Inc.**Contract Start Date:** Full Notice to Proceed (NTP): October 3, 2016**Contract Substantial Completion:** April 2020**Projected Completion of Work:** September 2021

Project Description: The Kamehameha Highway Station Group construction contract includes services to build three (3) transit stations along Kamehameha Highway. The stations are Waiawa Station at Pearl Highlands (PHL), Kalauao Station at Pearlridge (PLR), and Hālawā Station at Aloha Stadium (ALS). Operational ancillary buildings, pedestrian crossing improvements, Train Control and Communications Rooms (TCCRs), and landscaping of the station sites are included in addition to the transit stations. The PHL Station will include a transit center. The PHL and ALS Stations include both a Park-and-Ride lot and a Kiss-and-Ride lot.

OVERALL STATUS:**ACTIVITIES THIS MONTH:****All Stations**

- Punchlist closure ongoing: Pre-Final 2020 Punchlist – 797 closed items; 80 open items. Final 2021 Punchlist – 3 closed items; 645 open items.

Waiawa Station at Pearl Highlands

- Performed final punchlist Walk-through Inspection with various Inspection agencies.
- Performed ground well inspection for punchlist.
- Performed lightning rod grounding inspection for punchlist.
- Performed signage inspection for punchlist.
- Performed sealant inspection at escalators for punchlist.
- Performed door hardware inspection for punchlist.
- Inspected Fire Stand Pipes (FSPs) for Field Change Notice (FCN) 230.
- Request for Information (RFI) 1326 and 1336 – Inspected the shotcrete of the underside of the transformer pad stairs landing.
- NCR 71 - Path from road to stair landing for transformer pad collaboration between CEI, Anil Verma Associates, Inc. (AVA) and Nan Inc. on-going.
- NCR 042 - Inspected cracks in concrete at Mauka concourse topping slab.
- Monitored Naio Thrips infestation.
- Monitored water heater malfunctions.
- Reviewed and sorted final punchlist items.

Kalauao Station at Pearlridge

- Performed final punchlist Walk-through Inspection with various Inspection agencies.
- Performed ground well inspection for punchlist.
- Performed signage inspection for punchlist.
- Performed sealant inspection at escalators for punchlist.
- Performed door hardware inspection for punchlist.
- Collaborated with contractor and AVA to determine a way forward for NCR 68 Minor Tile Ring at Makai Station.
- Monitored concrete pour and contractor mitigation effort for water ponding at the Makai Station Faregate entrance near east bound (EB) Kamehameha Highway.
- Monitored FCN 247.
- Inspected and performed cost assessment for downspouts related to FCN 214.
- Completed RFI 1334 – PLR Restroom Hand Dryer, light switches and trash can conflict. Coordinated with AVA and Nan Inc.
- Monitored Makai and Mauka Standpipe -Through Faregate Wall plumbing relocation.
- Attended interface meetings with HART Art Architects for upcoming wall artwork at both Mauka and Makai Faregate Walls.
- Monitored water heater malfunctions.
- Reviewed and sorted final punchlist items.

Hālawā Station at Aloha Stadium

- Performed final punchlist Walk-through Inspection with various Inspection agencies.
- Performed ground well inspection for punchlist.
- Performed signage inspection for punchlist.
- Performed sealant inspection at escalators for punchlist.
- Performed door hardware inspection for punchlist.
- Monitored the UPS system daily and determined that the UPS system is being bypassed and running in maintenance mode.
- Monitored FCN 247.
- Inspected and performed cost assessment for downspouts related to FCN 214.
- Collaborated with AVA and contractor to complete FCN 248 – Additional 2 light fixtures in the TCCR Room. Light void problem mitigation.
- Monitored painting for FCN 245. Emergency Telephone (E-Tel) Passenger Assistance Telephone (P-Tel) Cabinets.
- Inspected and performed cost assessment for downspouts related to FCN 192.
- Inspected FCN 220 Clear to Translucent glass.
- Monitored 7 incorrect Medallions received by contractor.
- Monitored water heater malfunctions.
- Reviewed and sorted final punchlist items.
- Performed daily CEI incoming HECO power checks.
- Coordinated with HECO to perform incoming power monitoring.

LOOK AHEAD:

Waiawa Station at Pearl Highlands

- Repair canopy bipod NCR 065.
- Repair grounding punchlist items.
- Perform ground wells testing.
- Repair door hardware non-compliance.
- Install lightning rod grounding.
- Repair escalator sealant issues.
- Repair/replace signage punchlist items.
- Bill and close FCN 230.
- Complete NCR 42 cracks in Mauka topping slab repair work.
- Complete Naio Thrrips hauling and disposal.
- Complete stair tread nosing replacement. New product substitute by general contractor (GC) approved, on order.

Kalauao Station at Pearlridge

- Repair grounding punchlist items.
- Perform ground wells testing.
- Repair door hardware non-compliance.
- Install lightning rod grounding.
- Repair escalator sealant issues.
- Repair/replace all signage punchlist items.
- Bill and close FCN 230.
- Complete NCR 68 water egress issues.
- Prepare logistics for Mauka and Makai Faregate Wall artist.
- Continue installing 1 inch water pipes for the Makai and Mauka Standpipe -Through Faregate Wall plumbing relocation.

Hālawā Station at Aloha Stadium

- Repair grounding punchlist items.
- Perform ground wells testing.
- Repair door hardware non-compliance.
- Install lightning rod grounding.
- Repair escalator sealant issues.
- Repair/replace signage punchlist items.
- Collect HECO incoming power monitoring data.
- Collect CEI daily power monitoring.

KEY ISSUES:

Key Issues with Contractor Proposal

Title	CPC Code
• CW Elect. & Structural Canopy Changes (Construction Costs)	B
• CW Elect. & Structural Canopy Changes (Schedule - TIA-4)	C

LEGEND: A = less than \$1 million; B = \$1 million-\$5 million; C = greater than \$5 million; P = pending contractor submittal

QUALITY MANAGEMENT:

KHSNG NCR Log (Issued by Nan)			
	NCRs Issued to Date	Closed	Open
PHL	32*	29*	3
PLR	28	27	1
ALS	10	10	0
Contract Wide	3	1	2
TOTAL	73	67	6

*the NCR amounts have been corrected

SCHEDULE:

- Canopy claim supporting documentation being prepared; may change the contract completion date.
- Work will extend beyond July 2021, due to the number of outstanding punchlist items identified during the final walk-throughs held in June 2021.

Progress		Schedule Status	
Physical % Complete	99.9%	17 months behind	
Early Plan*	100%		
Late Plan*	100%		

*Data as of June 25, 2021.

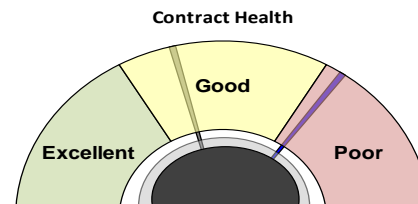
KEY MILESTONES:



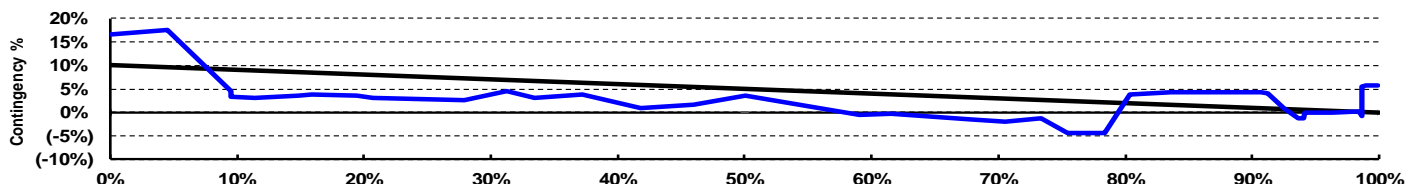
COST SUMMARY:

Description	Current Period (Jun-2021)		
	FFGA	O&M	Total CPP
1. Original Contract ¹	136,930,845	-	136,930,845
2. Approved Change Orders	15,743,885	-	15,743,885
3. Current Contract Value (1+2)	152,674,730	-	152,674,730
4. Pending Changes	-	-	-
5. Potential Changes	(656,733)	-	(656,733)
6. Potential Claims	13,081,657	-	13,081,657
7. Non-Contractual Expenses	-	-	-
8. Total Forecast (3+4+5+6+7)	165,099,654	-	165,099,654

¹Amount includes costs of future contract awards



Remaining Allocated Contingency vs FTA Minimum



DBB701: Kamehameha Highway Resurfacing (KHR)**Contractor:** Road and Highway Builders, LLC (RHB)**Contract Start Date:** Notice to Proceed NTP #1: August 2018**Contract Substantial Completion:** June 2021**Projected Completion of Work:** August 2021

Project Description: The project consists of pavement resurfacing and other roadway reconstruction associated with completion of the Kamehameha Highway Guideway contract. Construction includes, but is not limited to, clearing, grubbing, erosion and dust control, grading and hauling, maintenance of traffic, pavement resurfacing, and installation of pavement markings and striping, roadway signs, curb ramps, drainage, waterlines, gas lines, traffic signal loop detectors, retaining wall, guard railing, fencing and bus shelters.

ACTIVITIES THIS MONTH:

- The contractor resumed work on the project on June 10 with punchlist work. All punchlist items were completed, except for 3 Americans with Disabilities Act (ADA) ramps that require additional information from HDOT on whether the ramps can be accepted as constructed or if modifications are required to meet field conditions and current ADA standards.
- Work also began on the bus stop improvements at Pearlridge Shopping Center, Request for Change by HART (RFCR) 11 (CCO#10).
- The Engineer of Record (EOR) revised the ductbank profile for the Change (RFCR) 00015 PHL Three Utility Poles in Sidewalk in front of Waiawa Station.

LOOK AHEAD:

- RHB to begin work on the unilateral change order, expected in July, for the advance pedestrian crossing from Waiawa Station at Kuala Street.
- Work is expected to begin shortly on undergrounding the communication lines and removing the 3 poles in front of Waiawa Station.

KEY ISSUES:**Key Issues with Contractor Proposal**

Title	CPC Code
Advanced Work for Left Turn Kuala Street Temporary Pedestrian Crosswalk	B
Eastbound Guardrail at Pearl City Stream Bridge	A

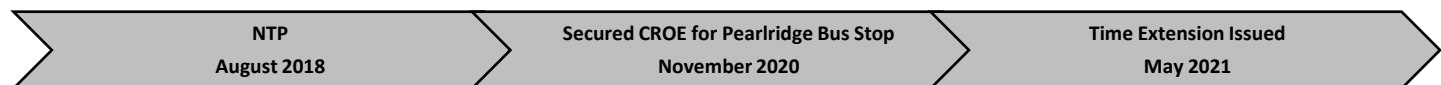
LEGEND: A = less than \$1 million; B = \$1 million-\$5 million; C = greater than \$5 million; P = pending contractor submittal

QUALITY MANAGEMENT:**KHR NCR Log (Issued by Road and Highway Builders)**

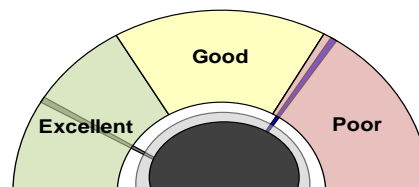
Total NCRs Issued to Date	Closed	Open
0	0	0

SCHEDULE:

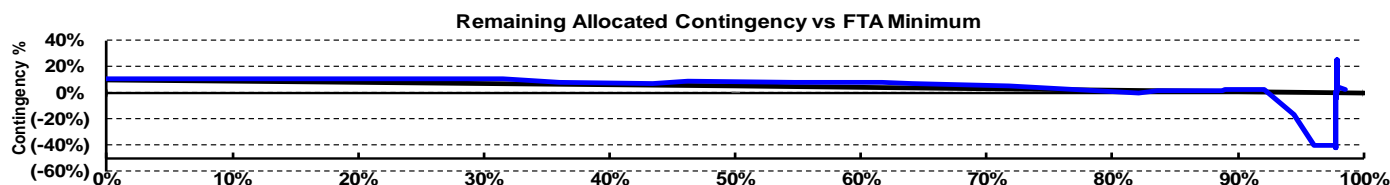
Progress		Schedule Status
Physical % Complete*	98.5%	2 months behind**
Early Plan*	100%	
Late Plan*	100%	
*Data as of June 25, 2021. **Pending contract actions will extend contract completion date.		

KEY MILESTONES:**COST SUMMARY:**

Description	Current Period (Jun-2021)		
	FFGA	HDOT	Total CPP
1. Original Contract ¹	36,238,503	3,367,286	39,605,789
2. Approved Change Orders	3,536,480	2,002,956	5,539,436
3. Current Contract Value (1+2)	39,774,983	5,370,242	45,145,225
4. Pending Changes	1,620,492	-	1,620,492
5. Potential Changes	575,931	-	575,931
6. Potential Claims	134,941	-	134,941
7. Non-Contractual Expenses	-	-	-
8. Total Forecast (3+4+5+6+7)	42,106,347	5,370,242	47,476,589

¹Amount includes costs of future contract awards**Contract Health**

Changes as a % of Award 10% Changes & Potential as a % of Award 16%

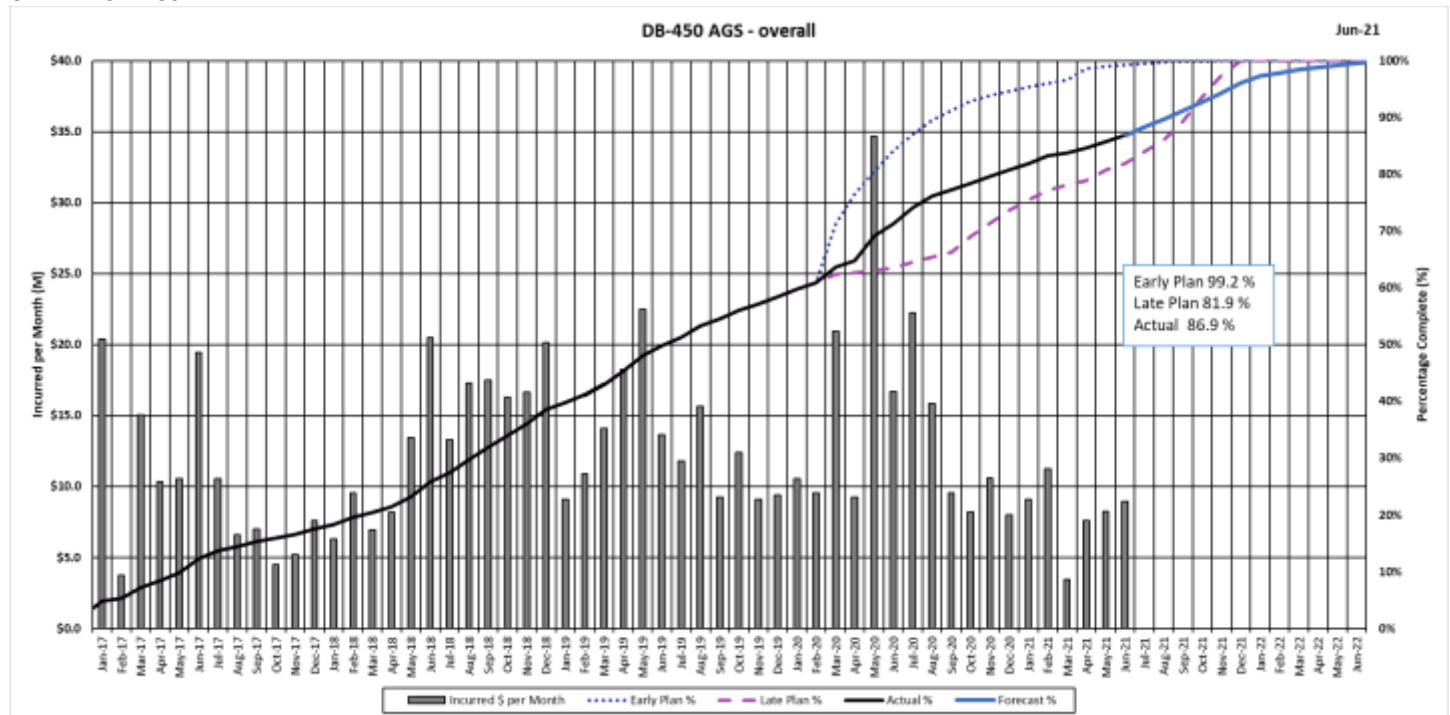


DB450: Airport Section Guideway and Stations (AGS)

Contractor: Shimmick/Traylor/Granite, JV (STG)
Contract Substantial Completion: December 2021

Contract Start Date: December 2016
Projected Completion of Work: August 2022

Project Description: The Airport Guideway and Stations Design-Build contract consists of the design and construction of 5.2 miles of elevated guideway, four (4) stations, and associated facilities between Aloha Stadium and the Middle Street Transit Center. The contractor will begin by interfacing with design disciplines, third-party stakeholders, and construction contracts within the corridor of the project to coordinate and resolve utilities conflicts. Design field verification efforts (potholing and geotechnical exploration) will be followed by construction activities once design packages have been approved.

OVERALL STATUS:**ACTIVITIES THIS MONTH:**

AGS Construction Status as of 6/30/2021			
	Total to Date	Total Qty	% Complete
Guideway Structure Element			
Shafts	215	225	95.5%
Columns	218	232	93.9%
Segment Casting	2,708	2,708	100%
Spans Stressed	184	210	87.6%
Spans Grouted	181	210	86.2%
Track 1 rail work	125	210	59.5%
Track 2 rail work	125	210	59.5%
Track 1 Third Rail	0	210	0.0%
Track 2 Third Rail	0	210	0.0%
Mill & Overlay (Square Yard [SY])	5,440	58,330	9.3%
Stations			
Makalapa (Pearl Harbor Naval Base)			57.7%
Lelepaua (Daniel K. Inouye International Airport)			62.9%
Āhua (Lagoon Drive)			49.5%
Kahauiki (Middle Street Transit Center)			49.1%

Guideway, Rail and Utility Work

- Gantry 1 (Reach D) erected/stressed Span 587. Gantry 2 (Reach C) erected/stressed Spans 569-572; awaiting L-Bent Capital 575 to be completed, to resume in late July. Gantry 3 (Reach E) remained idle at Span 629; awaiting C-Bent 632 to be completed in August.
- Utilities – HECO Zone 8B Primary Infrastructure cabling installation completed and progress made on Secondary Infrastructure; mandrel testing to occur on Secondary Infrastructure in the first week in July; upon HECO approval, Secondary Infrastructure cabling installation can begin with energization and electrical cutovers shortly thereafter. HECO Zone 9 infrastructure completed and HART On-Call Contractor (HMS) performing cabling installation with electrical cutover anticipated on July 2, 2021 (to clear the last remaining shafts in Reach E – 633 L/R).

- Rail – Thermite welding and destressing of Running Rail has been completed up to Span 460; third rail cantilever brackets in Reach A have been installed through Span 450; in Reach C, iron horses and plinth forms installed up to Span 549 (just Diamond Head of Lelepaua Station).

Makalapa Station at Pearl Harbor Naval Base (PHNB)

- Completed welding of Elevator #1.
- Erection/welding of structural steel for Entrance building.
- Continue forming pedestrian walkway and landings in preparation for concrete pour in July.
- Completed the Ancillary Building (including TCCR) concrete masonry unit (CMU) walls and installed hollow plank roofs.

Lelepaua Station at Daniel K. Inouye International Airport

- Installation of Ancillary (including TCCR) CMU walls.
- System Site 27 top slab continued to be delayed due to an NCR, but was resolved in the last week of June; anticipated completion is now in July.
- Continue HECO infrastructure in the toll booth area and on Aolele Street in support of System Site #27 and station power.
- Demolition of International Parking Structure portion and Overseas Parking Structure portion in preparation for new pedestrian bridge.

Āhua Station at Lagoon Drive

- Painting of structural steel for Makai Entrance.
- Forms and rebar finalized for stairs and landings for Mauka Entrance, concrete scheduled for July.
- HECO Infrastructure for the station service connection in support of station power.

Kahauiki Station at Middle Street Transit Center (MSTC)

- Structural steel erection for Entrance completed with welding nearing completion.
- Platform girder formwork has been erected for 2/3 of the station.
- Installation of falsework for the TCCR has begun.

LOOK AHEAD:

Guideway, Rail and Utility Work

- Finish 575 L-Bent Capital in July, allowing Gantry 2 in Reach C to continue moving towards completion.
- Third rail and center walkway installation in Reach A in July.
- Upon completion of HECO Zone 9 in early July, begin drilling Shafts 633 L/R (Reach E).
- Anticipate HECO Zone 8B (Waiwai Loop) completion in August, then begin drilling Shafts 595-599 (Reach D).

Makalapa Station at Pearl Harbor Naval Base

- Finish Ancillary Building (including TCCR) topping slab and roofing.
- Pour pedestrian bridge, curbs/ramps, and landings at concourse level.
- Prep for setting of Escalator #1.

Lelepaua Station at Daniel K. Inouye International Airport

- Complete Ancillary (including TCCR) CMU walls.
- Prepare for the delivery and erection of the structural steel for the pedestrian bridge, beginning in July – progress has continued to be delayed due to NCR's for bearing pedestals.

Āhua Station at Lagoon Drive

- Finish painting of structural steel for Makai Entrance – anticipated end of July.
- Mechanical, Electrical, Plumbing installation for Makai Entrance – anticipated to begin in mid-July.

Kahauiki Station at Middle Street Transit Center

- Structural steel welding for Entrance to be complete.
- Pour TCCR building slab.
- Continue installation of rebar for platform girders – final 1/3 of Doka forms to be installed after C-Bent 632 is completed so Gantry 3 can launch.

KEY ISSUES:

Key Issues with Contractor Proposal	
Title	CPC Code
• Lelepaua (HIA) Site Redevelopment	B
• ITS IP Based Design	P
• DPP Erosion Control Notes	A
• Additional VMS Boards at Station Platforms	P
• Fare Gate FDAS Relay Cable & Fare System Walker Duct	A
• SCADA Infrastructure to Coiling Grille for Remote Access	A
• HECO Zone 8 Equitable Adjustment	C
• FDAS Conduit Sizing - CSC Change	P
• Security Fencing at Lelepaua (HIA) Garage	A
• Restraining Rail Material	P
• Retrofit MDS Foundation Poles	A
• System Site 28 Automatic Transfer Switchgear	P
• Pre-cast Yard Extension June 2021 to December 2022	P

LEGEND: A = less than \$1 million; B = \$1 million-\$5 million; C = greater than \$5 million; P = pending contractor submittal

QUALITY MANAGEMENT:

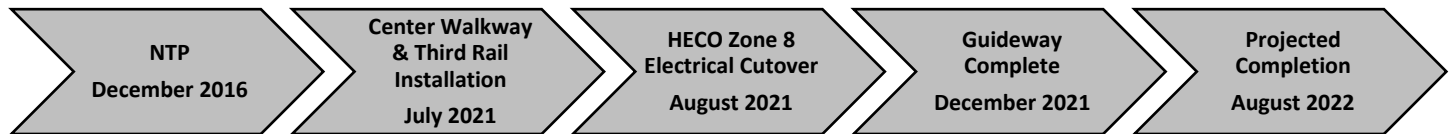
AGS NCR Log (Issued by STG)			
	NCRs Issued to Date	Closed	Open
Guideway	427	371	56
Makalapa Station	54	37	17
Lelepaua Station	52	32	20
Āhua Station	22	18	4
Kahauiki Station	35	15	20
Contract Wide	17	17	0
TOTAL	607	490	117

SCHEDULE:

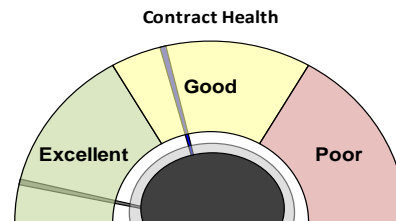
- The substantial completion date continues to slip due to HECO Zone 8B (Waiwai Loop) – executive meetings have occurred between HART and HECO in an effort to resolve outstanding issues. STG and HRH continue to meet monthly to improve on access milestones for CSC.

Progress		Schedule Status
Physical % Complete*	86.9%	8 months behind
Early Plan*	99.2%	
Late Plan*	81.9%	

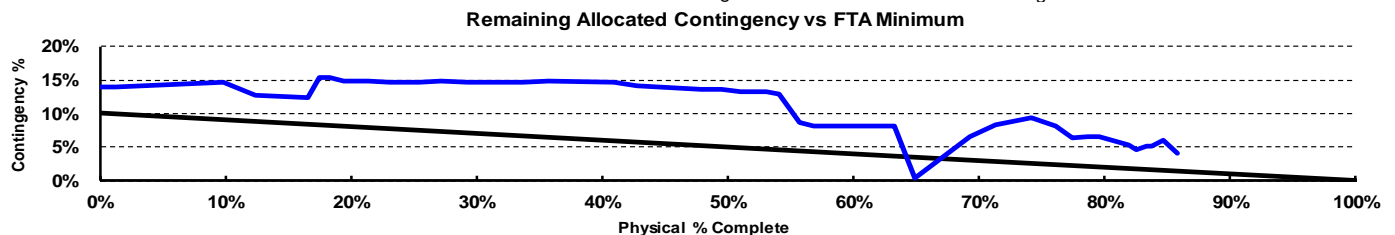
*Data as of June 25, 2021. The planned % values reflect the most recently accepted AGS mitigation schedule, which has a December 2021 completion date.

KEY MILESTONES:

COST SUMMARY:

Description	Current Period (Jun-2021)		
	FFGA	O&M	Total CPP
1. Original Contract	874,750,000	-	874,750,000
2. Approved Change Orders	11,559,800	-	11,559,800
3. Current Contract Value (1+2)	886,309,800	-	886,309,800
4. Pending Changes	-	-	-
5. Potential Changes	83,596,696	-	83,596,696
6. Potential Claims	-	-	-
7. Non-Contractual Expenses	3,636,417	-	3,636,417
8. Total Forecast (3+4+5+6+7)	973,542,914	-	973,542,914



Changes as a % of Award 1% Changes & Potential as a % of Award 11%

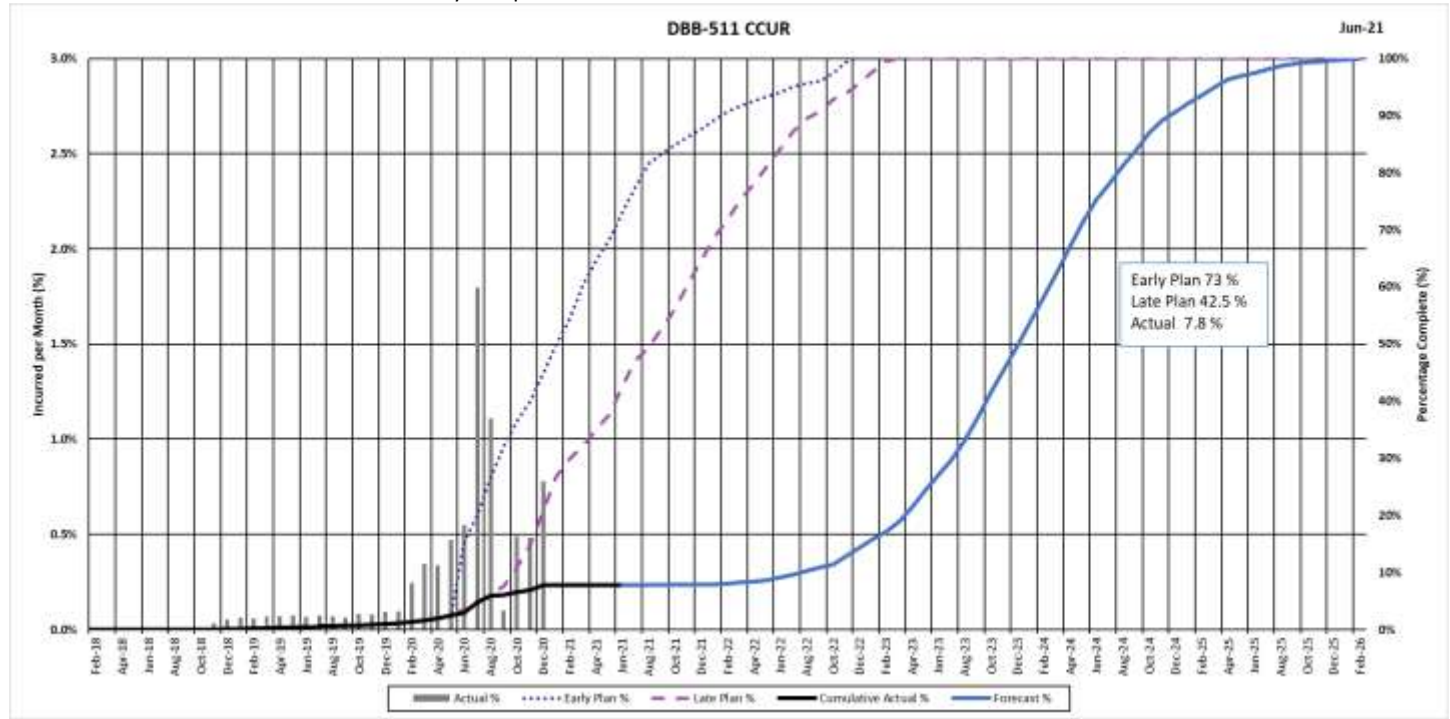


DBB511: City Center Utilities Relocation (CCUR) Indefinite Delivery/Indefinite Quantity (IDIQ)**Contractor:** Nan, Inc.**Contract Start Date:** May 2018**Projected Completion of Relocation Work:** February 2026

Project Description: The CCUR contract is a unit priced, task order contract that relocates utilities in advance of the City Center Guideway and Stations construction work. It provides utility relocation construction services for a variety of utilities along the civil roadway construction throughout the City Center segment of the HRT. The construction services to be provided include, but are not limited to, permanent and temporary wet and dry utility relocation work as well as miscellaneous, as-needed site work, installation of permanent/temporary utility poles, duct bank construction, and other utility installation support structures.

OVERALL STATUS:

Planned values are based on the most recently accepted schedule. The curve will be rebaselined with future CCUR contracts.

**ACTIVITIES THIS MONTH:**

- **Contract:** As-builts have been finalized and submitted to AECOM for review. Also, quantity reconciliation has been completed on all task orders (TO), except TO-001 - Dillingham and TO-021 – General Conditions.
- **Procurement:** Preparation of procurement documents continued with various workshops to review General Terms and Conditions (GTC) language and measurement and payment clauses.

LOOK AHEAD:

- **Contract:** Fifteen (15) claims have been received and reviewed for merit. Four (4) response letters have been sent and five (5) are currently in process for review. Account reconciliations on TO-001 are anticipated to be complete in July, with TO-021 being worked on after all costs have been submitted and claims concluded.
- **Procurement:** Draft CCUR III procurement documents are undergoing review and final edits and preparation of the solicitation advertisement are targeted for completion by August 2021. Meetings will occur in July to begin preparation of the CCUR Electrical Package procurement.

KEY ISSUES:

- **Update on Ongoing Issues:**
 - Design finalization and 100% clearance standards compliance: Progress continues to be made in securing signatures for Issued for Construction (IFC) drawings. Anticipate having this completed by end of July for Areas 2-6.
 - HART Right-of-Way: Targets remain on schedule for December 2021 for the acquisitions required by CCUR III.
 - HECO Design Deliverables: No change this month.
 - Hawaiian Telcom (HTI)/Oceanic Time Warner Cable (OTWC) Construction Durations: No change this month; HART is planning to resume workshops in Q3 2021 to mitigate durations as the scope and schedule for CCUR III is being finalized in the solicitation documents.
 - Potential Termination for Convenience Claim from Nan: See comments under "Contract" in the sections above. Working with the Claims department to review and process the claims as they are received.
 - Field Variances: HART Management is scheduling workshop meetings with the 3rd Party stakeholders in July to develop the plan for mitigating delays by incorporating potential clearance variances that will be encountered in the field when design clearances are not met by unanticipated existing conditions.
- **New Issues:**
 - None.

QUALITY MANAGEMENT:

CCUR NCR Log (Issued by Nan)		
Total NCRs Issued to Date	Closed	Open
27	27	0

SCHEDULE:

- For June 2021, the forecasted critical path completion of CCUR is February 2026, and consists of the completion of Area 1, Dillingham, design; solicitation and award of the CCUR Area 1 contract; and the construction of the remaining utility relocations and roadway and civil improvements.

Progress		Schedule Status
Physical % Complete*	7.8%	TBD**
Early Plan*	73.0%	
Late Plan*	42.5%	

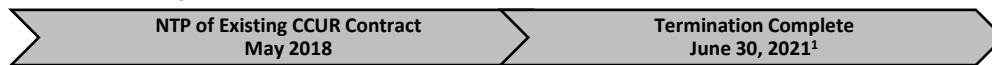
*Data as of June 25, 2021. The percentages shown are based on quantities of installed work against the current total estimated quantities.

**The Schedule Status is noted as "TBD" because the revised plan associated with the new EAC and procurement are being incorporated.

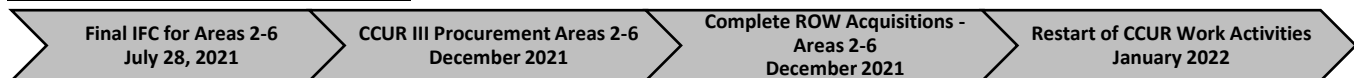
KEY MILESTONES:

There are multiple key milestones to complete CCUR work. The following upcoming milestones are on parallel paths:

Closeout of Existing CCUR Contract:



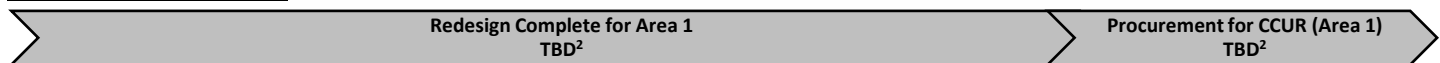
Restart of CCUR Work Activities (Areas 2-6):



Procurement for CCUR Electrical (Areas 2-6):



Procurement for CCUR Area 1:



¹ Administrative closeout will be completed upon receipt, processing and negotiating of claims prior to final acceptance and full administrative closeout.

² The scope of redesign for Area 1 is currently being assessed, based on coordination with HECO. The schedule will be updated to reflect the revised scope.

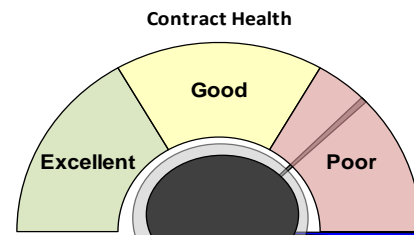
COST SUMMARY:

Description	Current Period (Jun-2021)		
	Original TO	Amendments	Total CPP
1. Original Contract	264,136,655	92,917,062	357,053,717
2. Approved Change Orders	-	-	-
3. Current Contract Value (1+2)	264,136,655	92,917,062	357,053,717
4. Pending Changes	-	-	-
5. Potential Changes	273,767,486	-	273,767,486
6. Potential Claims	453,478	-	453,478
7. Non-Contractual Expenses	-	-	-
8. Total Forecast (3+4+5+6+7)	538,357,620	92,917,062	631,274,682

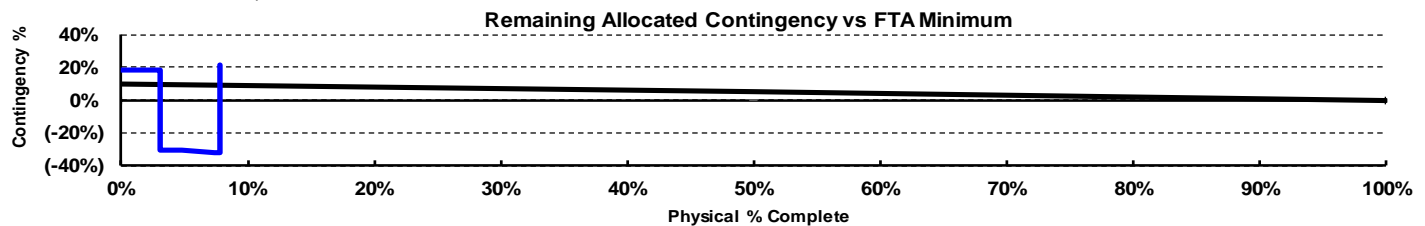
¹Original Contract was awarded at \$400,000,000

\$357,053,717 represents the current awarded task order amount;

This amount decreased from the prior month due to closeout of task orders



■ Changes as a % of Award 35% ■ Changes & Potential as a % of Award 103%



Status of Primary Construction Contracts Substantially Complete

Primary Construction Contracts Substantially Complete			
CPP No.	Contract	Contractor	Notes
DB-120	West O'ahu/Farrington Highway Guideway (WOFH)	Kiewit Infrastructure West Company (KIWC)	<ul style="list-style-type: none"> Structural monitoring meeting held in mid-June. Follow up meeting needed with Kiewit and its Engineer of Record (EOR), Figg. The CROE that is required for LCC parking lot corrections was reviewed and agreed to with UH. Follow up meeting with Kiewit and LCC is needed to discuss the warranty agreement. Post-Tensioned Tendon Monitoring on various spans along WOFH segment: HART started receiving the Acoustical Monitoring Reports from Kiewit/Structural Monitoring Solutions (SMS). There are many questions and concerns related to the report, notification process, and the lack of EOR assessment/action plan as required in the warranty. Currently, Kiewit does not have a contract with the EOR to make this assessment. Kiewit stated that they are in the process of getting a contract with the EOR, and will then schedule a meeting with HART. Currently, a meeting has not been scheduled.
DBB-602	UHWO Station Temporary Park-and-Ride & UHWO Campus Road "B" (UHPRB)	Nan, Inc.	<ul style="list-style-type: none"> Additional sidewalk corrections were identified and will be corrected July 2, 2021; final inspection is planned for July 15, 2021. Stockpile permit transfer approved; final paperwork is still pending.
DBB-171	West O'ahu Station Group (WOSG)	Nan, Inc.	<ul style="list-style-type: none"> Zero punchlist items remain. Claim supporting documentation is being prepared. Working on close out of required project documentation.
DBB-271	Farrington Highway Station Group (FHSG)	Hawaiian Dredging Construction Company, Inc. (HDCC)	<ul style="list-style-type: none"> Zero punchlist items remain. Working on close out of required project documentation.
DB-200	Maintenance and Storage Facility (MSF)	Kiewit/Kobayashi Joint Venture (KKJV)	<ul style="list-style-type: none"> Retention released.(KKJV) Contractor working on unclogging drain; work plan approved; work block pending HRH approval (PP).
DB-320	Kamehameha Highway Guideway (KHG)	KIWC	<ul style="list-style-type: none"> Reviewing punchlist items with HDOT. Project acceptance requested by the contractor.

2.11 Professional Services

A. Program Management Contractor Contract

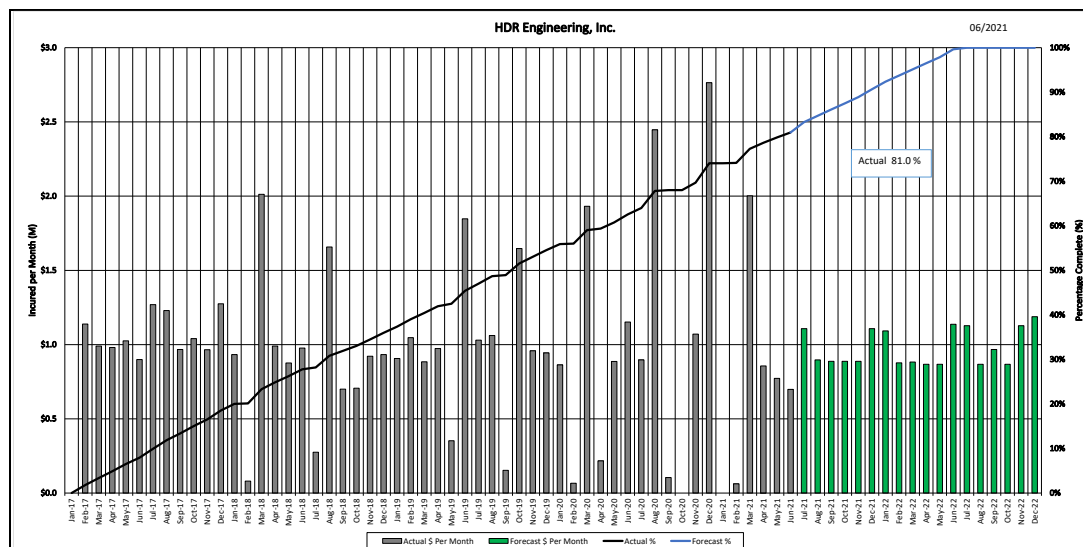
CPP No.: MM-902

Contractor: HDR Engineering, Inc.

Contract Start Date: January 1, 2017

Contract Completion Date: December 31, 2022

Original Contract:	\$63,522,953
Current Contract Value ¹ :	\$63,522,953
Incurred-to-Date:	\$51,428,942
Incurred in June:	\$698,554
¹ Current Contract Value = Original contract value + executed Change Orders	

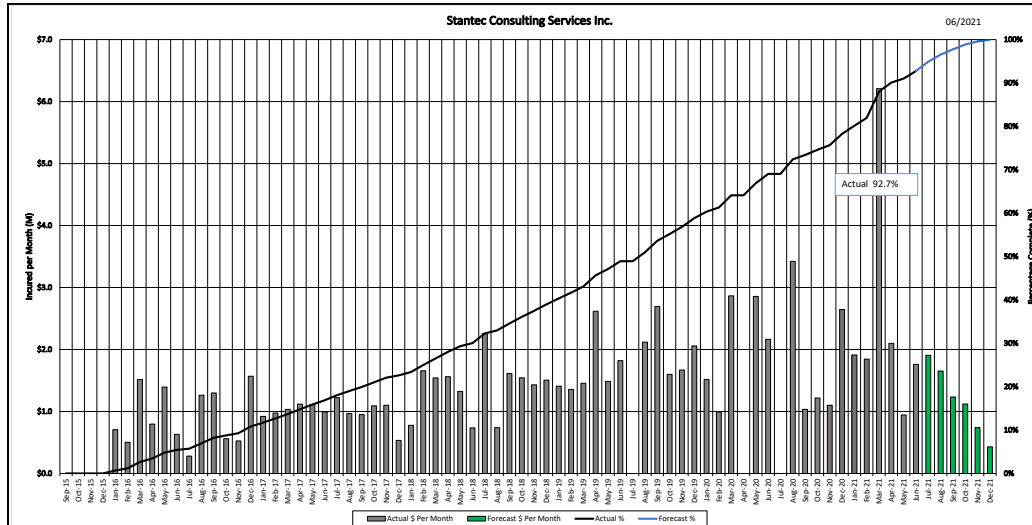


KEY ISSUES:

- Based on the average monthly expenditure rate, the current contract total will be exhausted by mid-December 2022.
- Subcontractor charges paid to date (from beginning of contract) is \$6,451,330.
- HDR executed a subcontract agreement with Pang Communications to provide communications and public relations strategies, execution and support to HART through December 2021.

B. Construction Engineering and Inspection (CEI) East
CPP No.: MM-596
Contractor: Stantec Consulting Services Inc.
Contract Start Date: September 14, 2015
Contract Completion Date: December 31, 2021

Original Contract:	\$55,036,130
Current Contract Value¹:	\$102,036,130
Incurred-to-Date:	\$94,630,330
Incurred in June:	\$1,761,410
¹ Current Contract Value = Original contract value + executed Change Orders	



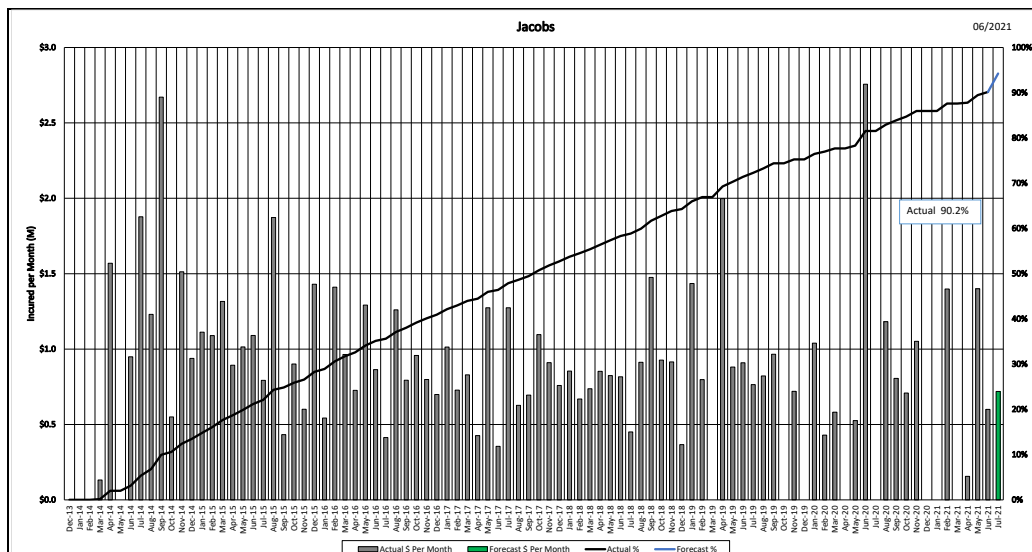
Monthly actuals are based on Pay App Verification values and are reconciled with the city's C2HERPS financial system. Reported in cash basis.

KEY ISSUES:

- Based on the updated staffing levels, the Stantec East CEI II Contract Amendment needs to be executed by the end of July 2021. This is a critical path item for continued CEI services.
- CEI is supporting HART with the field inspection of the ongoing track slide plate welding inspection. Initial repair on the eastside track is scheduled for July 2021, and westside track repairs are still being discussed with the contractor.
- CEI is supporting HART with the westside projects closeout, focused on punchlist completion scheduled to be complete by August 2021.

C. General Engineering Consultant
CPP No.: MM-913
Contractor: CH2M Hill, Inc.
Contract Start Date: December 5, 2013
Contract Completion Date: April 4, 2022

Original Contract:	\$46,143,277
Current Contract Value¹:	\$84,728,775
Incurred-to-Date:	\$76,402,891
Incurred in June:	\$599,665
¹ Current Contract Value = Original contract value + executed Change Orders	



Monthly actuals are based on Pay App Verification values and are reconciled with the city's C2HERPS financial system. Reported in cash basis.

KEY ISSUES:

- Amendment 010 executed to extend the contract to a completion date of April 4, 2022. Note that the incumbent GEC is planning on participating to bid for GEC IV.
- Direct staffing levels and subcontractor utilization have been adjusted downward slightly.

D. Core Systems Support

CPP No.: MM-962

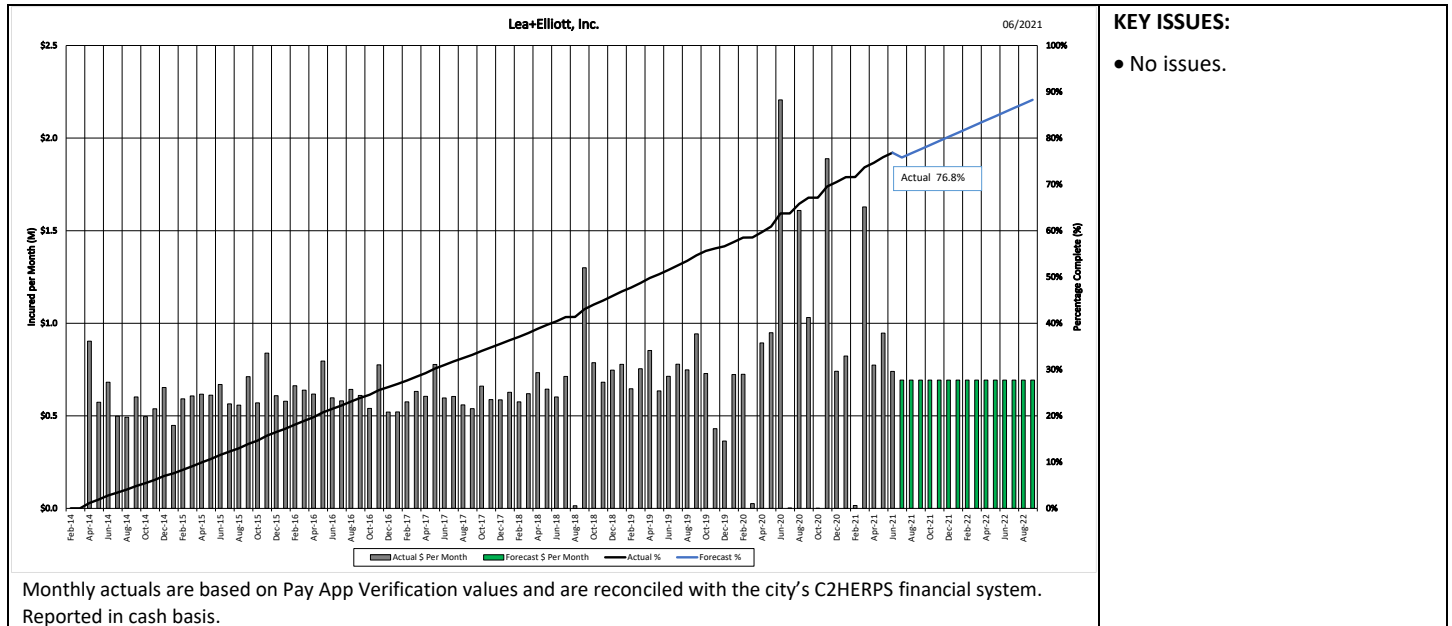
Contractor: Lea+Elliott, Inc.

Contract Start Date: February 11, 2014

Contract Completion Date: September 10, 2022

Original Contract:	\$43,988,989
Current Contract Value ¹ :	\$77,773,946
Incurred-to-Date:	\$59,764,064
Incurred in June:	\$740,209

¹Current Contract Value = Original contract value + executed Change Orders



2.12 Art-in-Transit (AIT) Program

Station / Facility Name	Artist Name	NTP Phase	Comments
Kualaka'i Station at East Kapolei	Robert Flint	NTP4	Artist informed HART that he is still working on finishing the sculpting of the ceramic mural and that he is on schedule to finish by the end of August 2021. AIT staff are preparing the contract extension documentations to send to Artist for signature and notarization. Installation is expected to begin in November 2021.
Keone'ae Station at University of Hawai'i West O'ahu	Satoru Abe	NTP4	Artist informed HART that he has decided to NOT sign the contract extension due to health reasons and will choose to close his contract at NTP4, waive installation, and waive NTP 5. Artist will deliver the artwork to HART's office and submit closeout documentation. AIT staff will work with Artist to close his contract. Artist will submit Exhibit 11 & Release of Certificate of Final Payment. AIT staff are developing the Identification Plaque layout and text.
Honouliuli Station at Ho'opili	Karen Lucas	NTP3	Artist has signed the contract extension to continue artwork fabrication and installation. Artist has finalized the fabrication details and has provided directions for the fabricator to begin artwork production. Installation is expected to begin in October 2021. AIT staff are developing the Identification Plaque layout and text.
Hō'ae'ae Station at West Loch	Hans Ladislaus	NTP3	AIT staff are preparing the contract extension documentation to send to Artist for review. Installation is expected to begin in May 2022.
Pouhala Station at Waipahu Transit Center	John Koga	NTP1	AIT staff are preparing the contract extension documentation to send to Artist for review. Installation is expected to begin in August 2022.
Rail Operations Center – Operations & Servicing Building	Shigeru Miyamoto	NTP3	AIT staff are preparing the contract extension documentations to send to Artist for signature and notarization. Installation is expected to begin in April 2022.
Hālaulani Station at Leeward Community College	Donald Lipski	NTP4	AIT staff are coordinating with the artist installer on pre-installation activities. Artist installer is preparing the draft Construction Program Work Plan & Activity Hazard Analysis (AHA). Installation is expected to begin in the latter half of August 2021. AIT staff are developing the Identification Plaque layout and text.

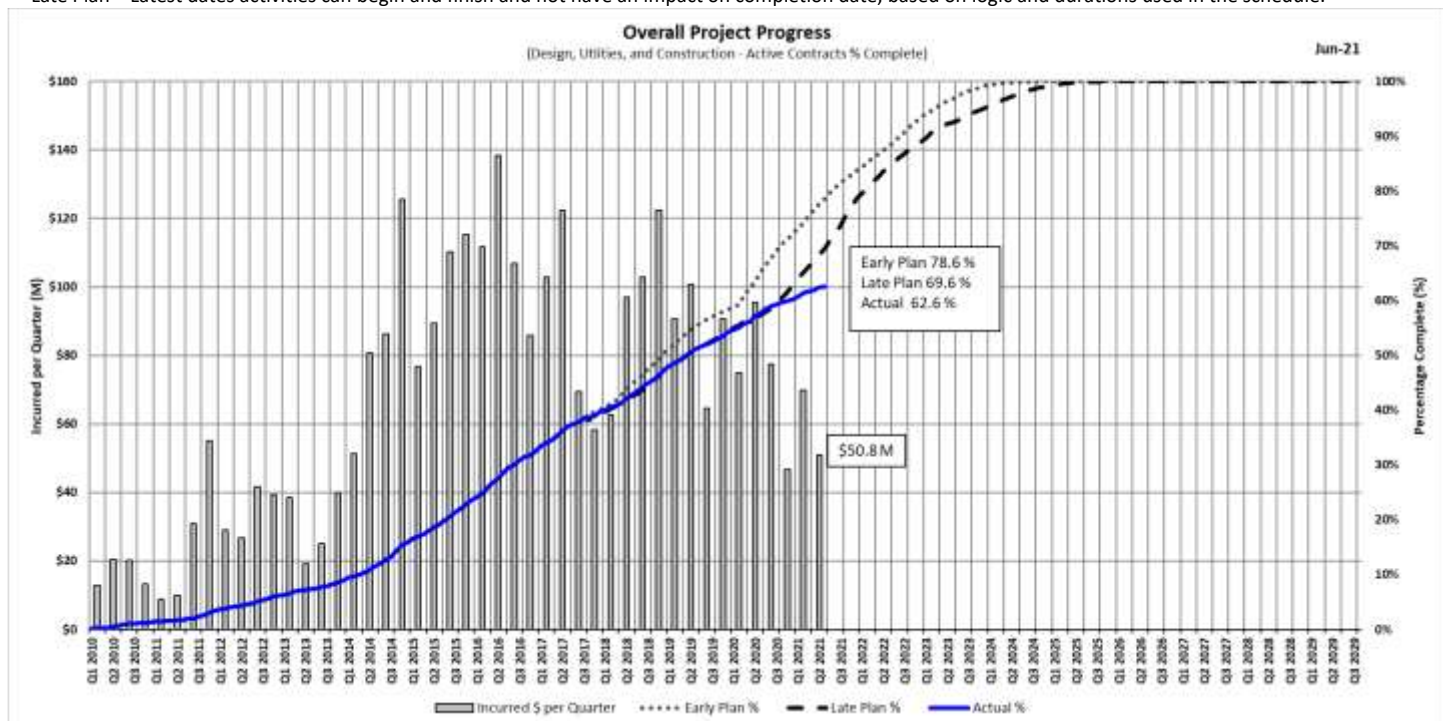
Station / Facility Name	Artist Name	NTP Phase	Comments
Kalauao Station at Pearlridge	Robert Kushner	NTP4	AIT staff are coordinating with HRH staff to secure a storage location at the Operations & Servicing Building (MSF). AIT staff are coordinating with artist installer on shipping the artwork crate and with CEI to provide station access for the artist installer. Installation is expected to begin in the first week of August 2021. AIT staff are developing the Identification Plaque layout and text.
Hālawā Station at Aloha Stadium	Jay Wilson	NTP1	AIT staff are preparing the contract extension documentations to send to Artist for signature and notarization. Artist requested meeting minutes from the Transit Art Committee (TAC) to review comments made on the artwork. Installation is expected to begin in August 2022.
Makalapa Station at Pearl Harbor Naval Base	Carol Bennett	NTP2	AIT staff are preparing the contract extension documentation to send to Artist for review. Installation is expected to begin in February 2022.
Lelepaua Station at Daniel K. Inouye International Airport	Mamoru Sato	NTP1	AIT staff are preparing the contract extension documentation to send to Artist for review. Installation is expected to begin in May 2022.
Āhūa Station at Lagoon Drive	Carol Yotsuda	NTP1	AIT staff are preparing the contract extension documentation to send to Artist for review. Artist requested meeting minutes from the TAC to review comments made on the artwork. Installation is expected to begin in June 2022.

2.13 Overall Project Progress and Financials (Spend Analysis)

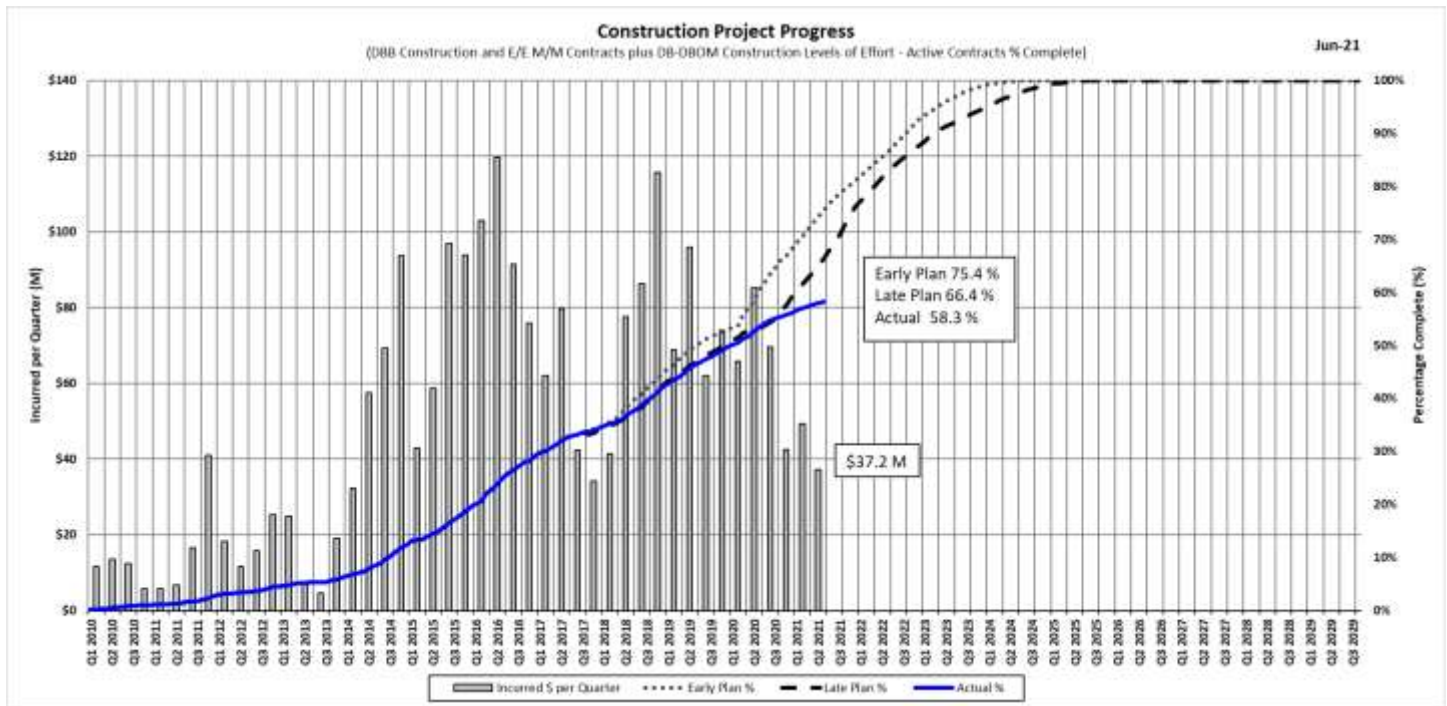
Reported percentages complete are based on the Estimate at Completion for the MOS and December 2025 Operational Readiness. HART is currently revising the progress curves further to incorporate the latest Estimate at Completion and the March 2031 Operational Readiness date. This revision is expected to lower the plan values.

Note:

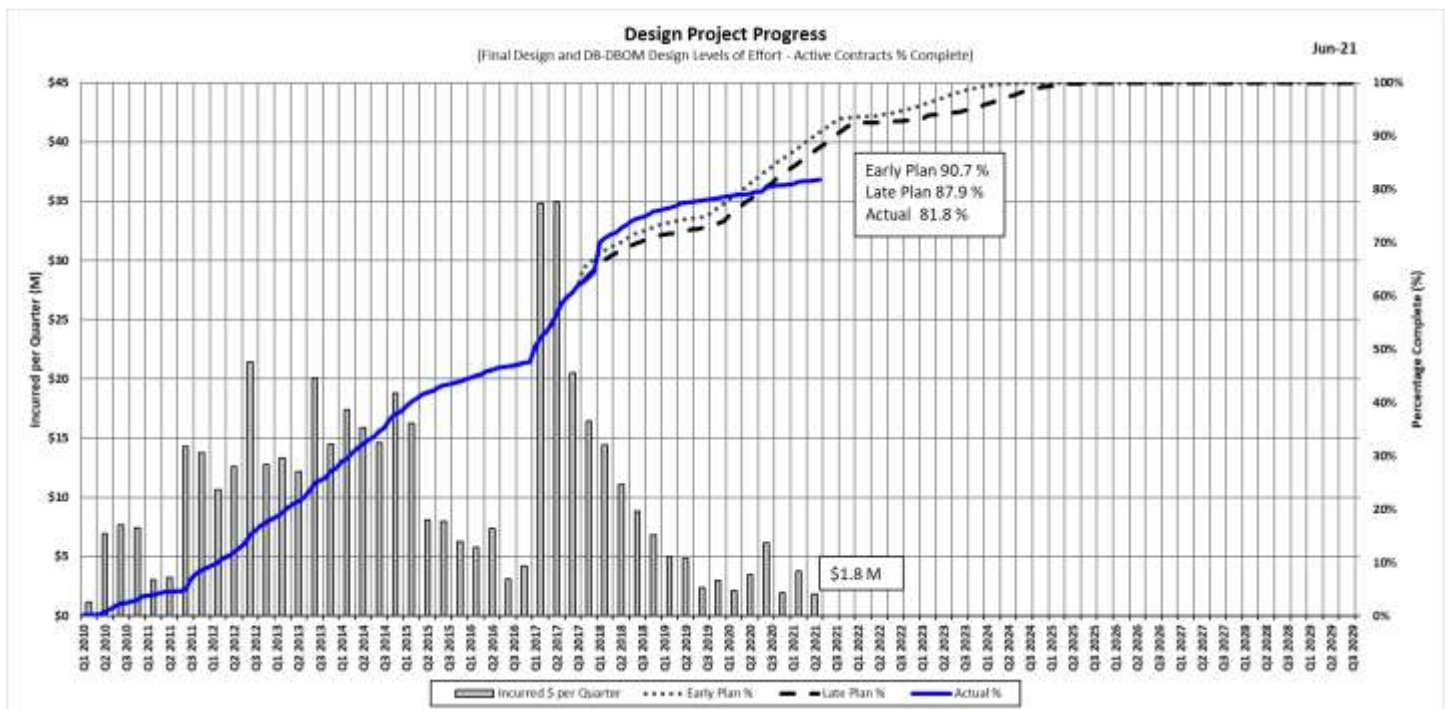
- Actual = Actual cost of work performed, based on reported work-in-place.
- Early Plan = Earliest dates activities can begin and finish, based on logic and durations used in the schedule.
- Late Plan = Latest dates activities can begin and finish and not have an impact on completion date, based on logic and durations used in the schedule.



Source: HART Project Controls. At present "overall" project progress is based on the weighted value progress of the individual construction and design contracts (Design-Build [DB], Design-Bid-Build [DBB], Design-Build-Operate-Maintain [DBOM], Elevator/Escalator Manufacture-Install-Test-Maintain [MIM], Final Design [FD] and DB-DBOM design levels of effort), not including City or non-design consultant labor.



Source: HART Project Controls. Overall construction progress is based on the weighted average progress of the individual DBB and E/E MIM construction contracts and the DB-DBOM construction levels of effort.



Source: cash basis. Overall design progress is based on the weighted average progress of the individual FD contracts and the design levels of effort of the DB and DBOM construction contracts.

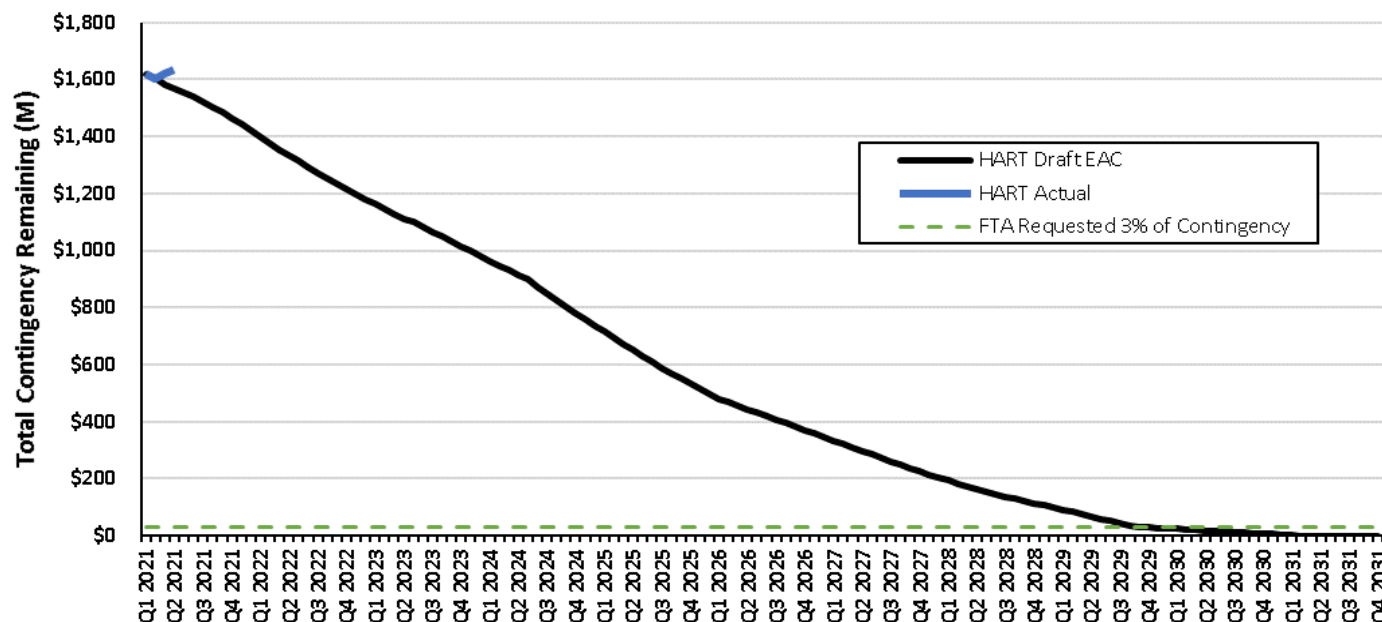
Project Costs by SCC – Level 2 (data as of June 30, 2021)

SCC	Description	Recovery Plan Budget			Estimate At Completion			
		Base Cost	Contingency	Total	Base Cost	Contingency	Total	Incurred
10	GUIDEWAY & TRACK ELEMENTS	1,385,613,350	222,868,325	1,608,481,675	1,875,127,425	159,892,547	2,035,019,973	1,015,188,235
10.02	Guideway: At-grade semi-exclusive	17,378	-	17,378	-	-	-	17,378
10.04	Guideway: Aerial structure	1,243,170,339	214,668,325	1,457,838,664	1,783,254,026	158,915,271	1,942,169,296	917,931,659
10.05	Guideway: Built-up fill	-	-	-	-	-	-	5,054,744
10.06	Guideway: Underground Cut & Cvr	-	-	-	-	-	-	(1,228,000)
10.08	Guideway: Retained cut or fill	142,425,633	8,200,000	150,625,633	-	-	-	-
10.09	Track: Direct fixation	-	-	-	91,873,400	977,276	92,850,676	89,487,205
10.11	Track: Ballasted	-	-	-	-	-	-	2,394,373
10.12	Track: Special (switches, turnouts)	-	-	-	-	-	-	1,530,876
20	STATIONS, STOPS, TERMINALS, INTERMODAL	740,278,879	91,423,195	831,702,074	1,799,021,431	397,642,769	2,196,664,200	334,612,957
20.01	At-grade station, stop, shelter, mall, terminal, platform	4,956,181	8,505,325	13,461,506	11,510,875	238,976	11,749,851	11,460,590
20.02	Aerial station, stop, shelter, mall, terminal, platform	548,219,008	54,496,453	602,715,461	1,668,181,592	361,925,535	2,030,107,127	302,419,012
20.04	Other stations, landings, terminal	-	-	-	-	-	-	-
20.06	Automobile parking multi-story structure	121,609,473	26,632,475	148,241,948	70,000,000	30,000,000	100,000,000	-
20.07	Elevators, escalators	65,494,217	1,788,942	67,283,159	49,328,964	5,478,258	54,807,221	20,733,356
30	SUPPORT FACILITIES: YARDS, SHOPS, ADMIN. BLDGS	100,806,854	-	100,806,854	149,073,495	897,711	149,971,206	122,597,692
30.01	Administration Building: Office, Sales	-	-	-	-	-	-	231,250
30.02	Light Maintenance Facility	3,057,240	-	3,057,240	-	-	-	7,582,704
30.03	Heavy Maintenance Facility	64,479,556	-	64,479,556	46,894,525	335,226	47,229,751	46,295,366
30.04	Storage or Maintenance of Way Building	8,619,230	-	8,619,230	67,494,488	35,287	67,529,775	8,922,739
30.05	Yard and Yard Track	24,650,828	-	24,650,828	34,684,481	527,199	35,211,680	59,565,633
40	SITWORK & SPECIAL CONDITIONS	2,315,294,490	230,442,932	2,545,737,422	2,316,498,780	367,514,252	2,684,013,033	1,236,494,336
40.01	Demolition, Clearing, Earthwork	33,446,029	1,038,000	34,484,029	3,974,126	145	3,974,271	5,000,112
40.02	Site Utilities, Utility Relocation	784,993,474	97,126,874	882,120,348	1,003,841,468	175,715,516	1,179,556,984	277,821,595
40.03	Haz. Mat'l, contam'd soil removal/mitigation, ground water treat	33,829,683	515,000	34,344,683	41,319,599	2,000,112	43,319,711	29,020,691
40.04	Environmental mitigation, e.g. wetlands, historic/archeologic, pa	5,518,864	-	5,518,864	18,909,802	206,246	19,116,048	15,608,579
40.05	Site structures including retaining walls, sound walls	21,764,985	6,884,511	28,649,496	10,217,645	14,006	10,231,650	13,333,291
40.06	Pedestrian / bike access and accommodation, landscaping	14,744,276	500,000	15,244,276	13,015,168	206,520	13,221,688	3,071,638
40.07	Automobile, bus, van accessways including roads, parking lots	264,580,524	29,237,568	293,818,092	205,123,688	40,336,779	245,460,467	122,609,821
40.08	Temporary Facilities and other indirect costs during construction	1,156,416,655	95,140,979	1,251,557,634	1,020,097,284	149,034,930	1,169,132,214	770,028,610
50	SYSTEMS	313,983,939	16,033,668	330,017,607	319,979,655	77,847,258	397,826,913	190,858,554
50.01	Train control and signals	157,077,732	7,756,522	164,834,254	113,447,023	23,530,721	136,977,744	78,446,383
50.02	Traffic signals and crossing protection	3,172,131	598,725	3,770,856	369,497	(886)	368,611	201,070
50.03	Traction power supply: substations	32,396,808	-	32,396,808	80,720,543	28,287,157	109,007,700	12,879,357
50.04	Traction power distribution: catenary and third rail	37,120,977	-	37,120,977	54,638,255	8,036,759	62,675,014	47,596,042
50.05	Communications	65,390,742	-	65,390,742	53,533,072	10,976,179	64,509,251	37,667,754
50.06	Fare collection system and equipment	15,015,206	7,678,421	22,693,627	12,808,734	6,303,842	19,112,576	10,380,467
50.07	Central Control	3,810,343	-	3,810,343	4,462,531	713,487	5,176,018	3,687,479
	Construction Subtotal (10 – 50)	4,855,977,512	560,768,120	5,416,745,632	6,459,700,786	1,003,794,537	7,463,495,323	2,899,751,774

Source: HART Project Controls

SCC	Description	Recovery Plan Budget			Estimate At Completion			Incurred
		Base Cost	Contingency	Total	Base Cost	Contingency	Total	
	ROW, LAND, EXISTING IMPROVEMENTS	254,835,574	106,789,890	361,625,464	400,190,784	137,080,190	537,270,974	235,255,107
60.01	Purchase or lease of real estate	171,400,000	101,500,000	272,900,000	400,190,784	137,080,190	537,270,974	234,977,307
60.02	Relocation of existing households and businesses	83,435,574	5,289,890	88,725,464	-	-	-	277,800
70	VEHICLES	211,389,952	-	211,389,952	189,859,841	41,801,982	231,661,823	170,225,701
70.01	Light Rail	190,383,694	-	190,383,694	1,219,858	2,180,142	3,400,000	-
70.02	Heavy Rail	-	-	-	175,613,435	36,885,750	212,499,185	157,559,009
70.05	Other	128,700	-	128,700	-	-	-	493,700
70.06	Non-revenue vehicles	14,371,344	-	14,371,344	13,026,548	2,736,089	15,762,637	12,172,992
70.07	Spare parts	6,506,214	-	6,506,214	-	-	-	-
80	PROFESSIONAL SERVICES	1,989,870,725	97,630,139	2,087,500,864	2,688,663,814	227,825,626	2,916,489,440	1,492,782,754
80.01	Preliminary Engineering	54,753,840	-	54,753,840	245,569,726	580,907	246,150,633	180,705,916
80.02	Final Design	584,149,899	31,512,697	615,662,596	469,670,619	35,661,172	505,331,791	384,619,575
80.03	Project Management for Design and Construction	668,557,925	29,851,833	698,409,758	802,382,346	82,466,604	884,848,950	483,635,149
80.04	Construction Administration & Management	278,640,420	28,220,008	306,860,428	931,706,611	95,446,110	1,027,152,721	340,006,247
80.05	Professional Liability and other Non-Construction Insurance	99,340,000	4,000,000	103,340,000	99,340,000	4,000,000	103,340,000	54,633,099
80.06	Legal; Permits; Review Fees by other agencies, cities, etc.	99,928,698	3,768,439	103,697,137	82,505,153	1,001,927	83,507,080	39,008,553
80.07	Surveys, Testing, Investigation, Inspection	141,686,622	277,162	141,963,784	18,668,530	515,000	19,183,530	4,798,816
80.08	Start up	62,813,321	-	62,813,321	38,820,830	8,153,906	46,974,736	5,375,400
90	Subtotal (10 – 80)	7,312,073,763	765,188,149	8,077,261,912	9,738,415,225	1,410,502,335	11,148,917,560	4,798,015,336
	UNALLOCATED CONTINGENCY	-	221,738,087	221,738,087	-	221,738,087	221,738,087	
100	Subtotal (10 – 90)	7,312,073,763	986,926,236	8,298,999,999	9,738,415,225	1,632,240,422	11,370,655,647	4,798,015,336
	FINANCE CHARGES	609,000,000	-	609,000,000	703,000,000	-	703,000,000	77,133,636
	Total Project Cost (10 – 100)	7,921,073,763	986,926,236	8,907,999,999	10,441,415,225	1,632,240,422	12,073,655,647	4,875,148,972
	Total FFGA Project Cost (10 – 100)	7,921,073,763	986,926,236	8,907,999,999	10,441,415,225	1,632,240,422	12,073,655,647	4,875,148,972

Contingency Drawdown Curve



Date	Apr-2022	Aug-2022	Aug-2022	Mar-2024	Dec-2025	Feb-2026	Jun-2028	Mar-2031
Milestone	Segment 1 Operational Readiness	AGS Construction Complete	CCUR Design Complete	Segment 2 Operational Readiness	CCGS Design Complete	CCUR Construction Complete	CCGS Construction Complete	Segment 3 Operational Readiness
Minimum Level (\$M)	802	747	747	486	352	335	134	-

HART Actual data shows better performance versus Draft EAC projections. Actual Contingency Remaining was \$1.633 billion, versus Draft EAC balance of \$1.566 billion.

Project Funding

Planned vs. Received Project Funding					
Funding Source	Pre-FFGA Project ¹	Project Funding		Total Project	Actuals Received in June 2021
	<u>2007 - 2009 Actuals Received</u>	Planned ² (\$YOE M)	<u>2009 - Present Actuals Received</u>	<u>2007 - Present Actuals Received</u>	
Beginning Project Cash Balance ³	-	298	298	-	-
Interest Income on Cash Balance ⁵	7	1	10	17	0
FTA Section 5309 New Starts Revenue ⁴	-	1,550	806	806	-
ARRA Funds	-	4	4	4	-
EPA Brownfields Grant (FY2018-FY2021) ⁶	-	1	0	0	-
Net General Excise Tax (GET) Surcharge revenues FY2010-FY2031	378	5,990	2,584	2,962	-
Transient Accommodation Tax (TAT) revenue FY2018-FY2031	-	1,182	144	144	-
City Subsidy - HART Administration FY2018-FY2031	-	214	69	69	-
Total	385	9,240	3,916	4,003	0

¹ GET and Interest Income received during Pre-Preliminary Engineering (pre-PE) phase prior to entry into PE.

² Updated to Chapter 6 - Project Finance, Figure 6-2 of HART's Approved Recovery Plan (for beginning cash balance, GET, TAT, grant revenue, city subsidy and interest income).

³ Beginning Project Cash Balance at Entry into Preliminary Engineering (PE) on October 16, 2009 (the FFGA Project start date) = Pre-PE GET, investment and miscellaneous income minus pre-PE expenditures. The \$298 million is included in the Pre-FFGA actual amounts received between 2007-2009 of \$378 million.

⁴ New Starts Funds Obligated Through Federal Fiscal Year 2014 Totals \$806.3 million.

⁵ Interest Income received in June 2021 - \$9,927.43

⁶ EPA \$900,000 Brownfields Grant (to plan and subsidize the environmental cleanup activities) reimbursement being requested.
EPA Brownfields Grant revenue received to date - \$55,260.87

New Starts Grant Information by Federal Fiscal Year (Amounts in Italics are Pending)				
Federal Fiscal Year (FFY) Allocation	FTA Obligated Amounts	Actual Drawdown Amounts to Date	Available Balance	FFGA Base Case Cash Flow
2008	\$15,190,000	\$15,190,000	\$0	
2009	\$19,800,000	\$19,800,000	\$0	
2010	\$30,000,000	\$30,000,000	\$0	
2011	\$55,000,000	\$55,000,000	\$0	\$20,607,242
2012	\$200,000,000	\$200,000,000	\$0	\$99,382,758
2013	\$236,277,358	\$236,277,358	\$0	\$258,280,277
2014	\$250,000,000	\$249,991,376	\$8,624	\$441,719,724
2015*	<i>\$250,000,000</i>	\$0	\$0	\$0
2016*	<i>\$250,000,000</i>	\$0	\$0	\$0
2017*	<i>\$243,732,642</i>	\$0	\$0	\$0
2018	\$0	\$0	\$0	\$0
2019	\$0	\$0	\$0	\$0
2020**	\$0	\$0	\$100,000,000	\$100,000,000
2021**	\$0	\$0	\$150,000,000	\$150,000,000
2022**	\$0	\$0	\$150,000,000	\$150,000,000
2023**	\$0	\$0	\$150,000,000	\$150,000,000
2024**	\$0	\$0	\$100,000,000	\$100,000,000
2025**	\$0	\$0	\$50,000,000	\$50,000,000
2026**	\$0	\$0	\$43,732,642	\$30,010,000
Total	\$1,550,000,000	\$806,258,734	\$743,741,266	\$1,550,000,000

Note:

* The funds for years 2015, 2016 and 2017 have not yet been obligated. The amounts represent the allocation for the fiscal year noted in the first column. No moneys can be drawn on awards not yet obligated.

** The amounts listed for years 2020-2026 are based on the approved Recovery Plan (as had been directed by the FTA) and indicate remaining funds that can be used once obligated. While no New Starts funds were obligated in 2020, the chart will remain as is, until a new plan for disbursement of funds is finalized and approved by the FTA.

2.14 Schedule (data as of June 25, 2021)

Critical Path Analysis

The Segment 1 Projected Operational Readiness date, to turn over the system to the Department of Transportation Services (DTS), is currently forecasted for April 2022. DTS makes the final determination of passenger service/Revenue Service Date (RSD). In the June 2021 update, forecasted completion of operational readiness remains the same as the previous month. This milestone was previously extended due to a later forecasted completion date for System Integration Testing, as well as the anticipated completion dates for track repairs and wheel replacements on existing trains. TTCI, an independent consultant, continues to review and analyze the outstanding track repair issues within the West side alignment, with recommendations from TTCI expected to be received by HART in August 2021. Immediately thereafter, a plan of action for implementing the recommendations will be developed. Systems Trial Operations is forecasted to begin in January 2022. However, the start date could be extended pending the recommendations provided by TTCI. The critical path for Segment 1 Operational Readiness of the passenger rail system continues through MSF Systems Operations Step 2 Milestone, System Integration Testing across the 9 West Side Stations, the recommended resolution for outstanding track repairs, and follow-on System Trial Operations. For the near critical path, activities include completion of COMMs Testing at West Side Stations and MMIS testing at MSF.

The Segment 2 Projected Operational Readiness date is currently forecasted for March 2024. In the June 2021 update, the Operational Readiness date has been extended to March 2024. This is due to completion of guideway work at Span 632 and erection of falsework for platform construction of Kahauiki Station at Middle Street Transit Center. The critical path will then continue through platform and station construction of Āhua Station at Lagoon Drive, and follow-on Core Systems Installation and Testing in the Airport Segment. The near critical path includes completion of overhead utilities relocation work at Waiwai Loop in Reach D, as well as transformer and switchgear installation and emergency walkway work in Reach E. The AGS and CSC contractors continue to meet on a regular basis to finalize turnover access dates for work in the AGS areas. This in turn will determine the Operational Readiness date for Segment 2.

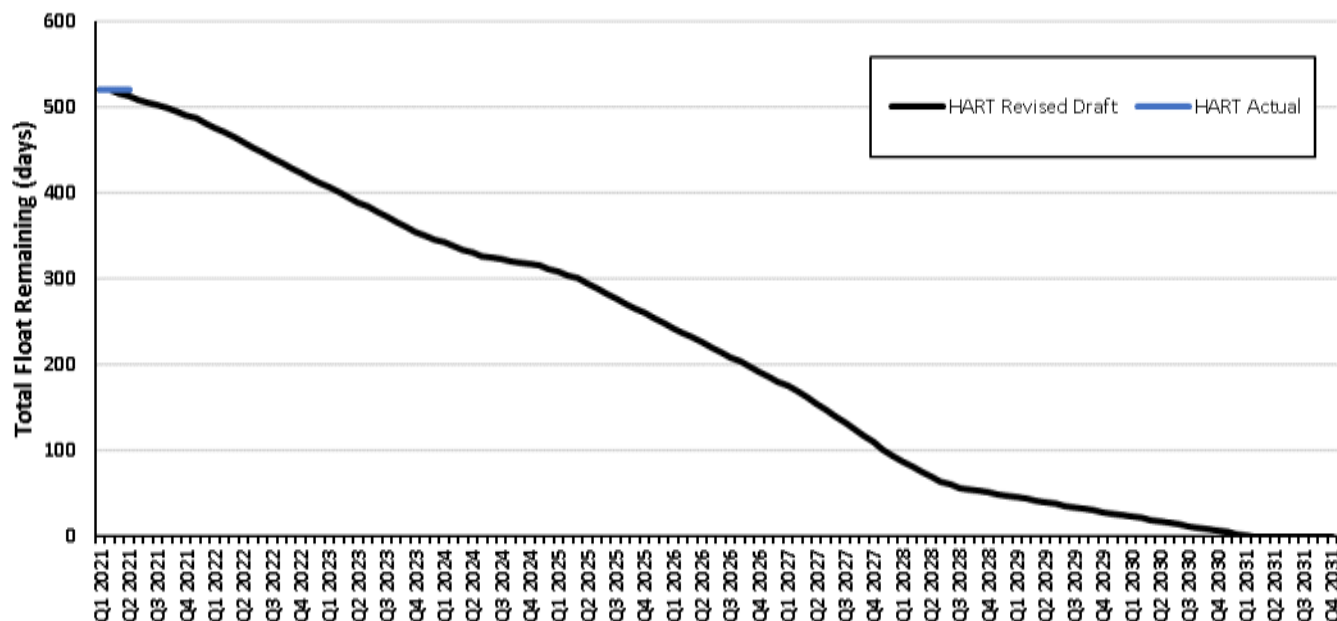
The Segment 3 Projected Operational Readiness date is currently forecasted for March 2031. In the June 2021 update, the forecasted completion of operational readiness remains the same as the previous month. Critical path continues to be driven by the Dillingham area dry utility re-designs for CCUR construction work. Procurement documentation for CCUR III infrastructure construction in Areas 2 to 6 are nearing completion and the Request for Bids (RFB) package will be issued no later than (NLT) August 2021. The critical path begins with submittal and approval of HART CCUR infrastructure design for the Dillingham corridor. The critical path will then continue through the procurement and installation of CCUR construction through Areas 1A/1B/1C, guideway, platform and structure construction for Niuhelewai Station at Kapalama, and Core Systems Installation and Testing for Segment 3 Operational Readiness. The near critical path includes wet utility and HECO electrical designs in the Dillingham area, canopy work at Niuhelewai Station at Kapalama, and procurement of the City Center Guideway and Stations (CCGS) contract.

Three-Month Look Ahead

- Resolve bipod strut issues at Waiawa Station at Pearl Highlands and finalize punchlist work at Kamehameha Highway Station Group (KHSG). Close out West Side Stations contracts.
- Elevators and Escalators
 - Awaiting confirmation and final operating permit for Kalauao Station at Pearlridge Elevator #2.
 - Commence installation of mauka Elevator #2 at Āhua Station at Lagoon Drive.
- CSC
 - Construction and Installation (Segment 1): Complete system integration testing between all subsystems for the West-side Station Group (WSSG).
 - Testing and Commissioning Look Ahead (Segment 1): Complete the system integration testing between the COMMs subsystem and the Backup Operations Control Center (OCC) for East Kapolei to Aloha Stadium station, pending items related to crossover speed restriction issues. Complete integration testing between Traction Power Substation (TPSS), Building Automation System (BAS), Electrically Operated Switch (EOS) and the SCADA subsystem at MSF's OCC. Per HRH, Trial Running will start Q1 2022, provided the resolution of crossover speed restriction issue is defined and a temporary solution to the crossover speed restriction is implemented.
 - Construction and Installation (Segment 2): Per AGS current dates, installation of CSC elements may be able to start in Q4 2021. Continue coordinating design revisions for Lagoon TPSS and SCADA conduits at roll up gates with the AGS contractor. Continue procurement for all subsystems.
- AGS
 - Reach A: Complete traffic signals and street lighting installations along Kamehameha Highway. Complete final alignment and destressing of rail. Complete guideway cable tray installations. Complete ductbank installations for Systems Site 25.
 - Reach B: Complete rail installation. Commence guideway cable tray installations. Complete traffic signal installations.
 - Reach C: Complete erection of remaining precast concrete (PC) segments through Span 578. Continue rail installation. Complete wet utility relocations for water lines and drainage. Continue roadway work along Aolele Street.
 - Reach D: Complete HECO utility relocations along Waiwai Loop. Remobilize drill rig in Reach D, beginning with drilled shaft at Pier 595R. Continue PC segment erections at Spans 585 to 592. Continue wet utility relocations.

- Reach E: Install drilled shafts 599 and 633L/633R. Install columns and caps at piers 632/633. Continue PC segment erections at Spans 630 and 631. Complete irrigation and drainage wet utility relocations. Complete permanent fencing installations.
- Makalapa Station at Pearl Harbor Naval Base: HECO energizes 500kVA for permanent power to the station. Complete electrical cabling installations at TCCR room and energize main switchboard. Build concrete columns and install structural steel for faregates. Install tensioned fabric canopy at platform and install lighting/electrical cabling for CSC.
- Lelepaau Station at Daniel K. Inouye International Airport: Erect arch columns and install tensioned fabric canopy at platform. Complete structural steel erection for pedestrian bridge. Complete TCCR door, frame, and hardware installations. HECO energizes 500kVA for permanent power to the station.
- Āhūa Station at Lagoon Drive: Install lighting protection systems at mauka station entrance and faregates. Pull and terminate conductors to TCCR. Form, pour and complete all levels of mauka Stairway 2. Place and finish interior slabs at makai entrance rooms.
- Kahauiki Station at Middle Street Transit Center: Place and finish TCCR foundation slab. Install TCCR doorframes, doors, and hardware. Install frames, doors, and hardware at station entrance. Form and pour HECO equipment pad on TCCR elevated slab. Complete artistic installation of bronze inlays/pavers at pedestrian bridge.
- CCUR
 - Complete as-built verification for final record drawings.
 - Complete Interim Traffic Signal designs for Areas 2 to 6.
 - Finalize procurement documents and issue RFB for CCUR III infrastructure construction in Areas 2 to 6.
 - Commence procurement for electrical installations in Areas 2 to 6.
- CCGS
 - Continue to review and analyze cost and schedule options for future CCGS construction.

Schedule Contingency Drawdown Curve



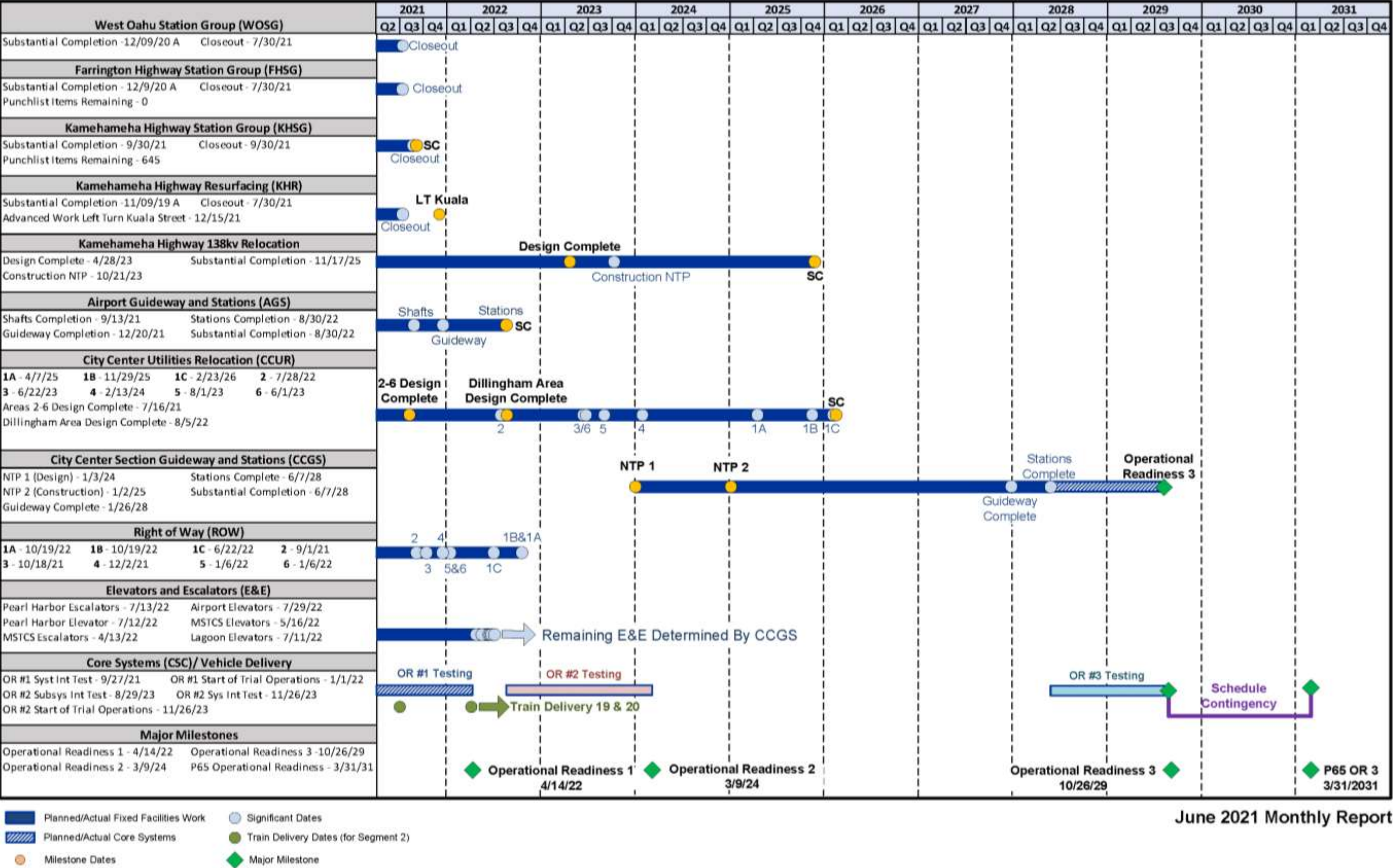
Date	Apr-2022	Aug-2022	Aug-2022	Mar-2024	Dec-2025	Feb-2026	Jun-2028	Mar-2031
Milestone	Segment 1 Operational Readiness	AGS Construction Complete	CCUR Design Complete	Segment 2 Operational Readiness	CCGS Design Complete	CCUR Construction Complete	CCGS Construction Complete	Segment 3 Operational Readiness
Minimum Level (days)	471	447	447	342	260	249	70	2

- Actual float remaining was 521 days, versus Draft EAC balance of 513 days.

H RTP Milestone Progress Chart

Honolulu Rail Transit Project

Major Project Summary Overview



June 2021 Monthly Report

The Milestone Progress Chart reflects currently approved schedule end dates for contracts that have been awarded, and planned dates for future contracts.

2.15 Risk Management

Following is a progress report highlighting top risks and mitigation efforts from the June 2021 monthly risk update.

2.15.1 Top Risk Summaries

Table 2: Top Risk Summaries			
Top 10 Cost Risks (Modeled)			
	Project	Risk Description	*Change
1)	Core	Schedule & Cost Impacts due to CCGS guideway and station delays	
2)	CCUR	Misidentified and Unidentified Utilities	
3)	CCUR	Field Changes Resulting From HECO Requirements	
4)	CCGS	Market Conditions - Reduced # of Bidders	
5)	CCUR	Mauka Shift - Opportunity	
6)	CCUR	Delay in Completion of Design	
7)	CCGS	Market Conditions - COVID-19 Impacts	
8)	CCGS	Interface Impacts	
9)	AGS	HECO Zone 8 Delay	
10)	Core	Additional work due to changes in design, equipment, etc.	

Top 10 Schedule Risks (Expected Value)			
	Project	Risk Description	*Change
1)	CCUR	Misidentified and Unidentified Utilities	
2)	CCUR	Field Changes Resulting from HECO Requirements	
3)	CCUR	HECO Energization	
4)	CCUR	Delay in Completion of Design	
5)	CCUR	Insufficient Construction Performance by Utility Owners	↑1
6)	Fare Systems	Rail Station installation of Fare Systems equipment could be delayed	↑1
7)	CCGS	Discovery of unanticipated Archeological Findings	↑1
8)	CCGS	Revocation of Noise Variance (allows night and weekend work)	↑1
9)	CCGS	Misidentified and Unidentified Utilities	**
10)	CCGS	Interface Impacts	**

*Change to position in Top 10

**New Risk to Top 10

AGS = Airport Section Guideway & Stations
ROW = Real Estate / Right-of-Way Acquisition

CCGS = City Center Section Guideway & Stations
Fare = Project-Wide Fare Collection

CCUR = City Center Utility Relocations and Roadwork
Core = Core Systems Contract

2.15.2 Top Risk Threats and Mitigations

The following risk scoring table (used in the calculation of the risk threat scores shown below) is in accordance with FTA guidelines for summarizing the overall severity of project risks. HART has adjusted the cost and schedule ranges shown below in order to scale values to an appropriate level as it relates to this project.

Risk Scoring for Risk Threats			
Impact Scores Legend	Low 1	Medium 2	High 3
(P) Probability	<10%	>10% <50%	>50%
(C) Cost Impact	<\$10 M	>\$10 M <\$50 M	>\$50 M
(S) Schedule Impact	<1 month	>1 month <4 months	>4 months
Rating	<6	7 - 12	13 - 18
Score = (Cost + Schedule) * Probability			

Risks are assessed based on the probability of occurrence, potential (expected value) cost impact, and potential (expected value) schedule delay to the critical path of the program. The total score is arrived at by adding the cost and schedule impact scores, multiplied by the probability score. For example:

40% Probability = 2; \$60 million Cost Impact = 3; Five-month Schedule Impact = 3

Resulting Score = $2 \times (3 + 3) = 12$; a Medium Risk.

There are currently 97 active risks within the HART program, during June 2021. The table below reflects only those risks that score either High or Medium based upon the criteria above.

Risk ID	Risk Description	Risk Threat Score	Current Status / Risk Mitigation
DB450 SIT 40.02_11	AGS: HECO Zone 8 Delay	15	Potential for additional delay is anticipated / HART is evaluating the Time Impact Analysis (TIA) and evaluating for concurrent delays.
DBB511 SIT 40.02_07	CCUR: Scope and schedule of construction could be impacted by the discovery of misidentified and unidentified utilities.	15	No change / HART will pay for differences in quantities of utility relocations, based on as-bid unit rates.
DB550 PRO 80.01_11	CCGS: Market Conditions - # of Bidders The base cost assumes at least 3 bidders to create a competitive environment. The risk is that we only get 1 or 2 qualified bidders. This lack of participation results in increased bids.	9	No change / Risk in response to the new CCGS Basis of Estimate report.
DB550 SIT 40.04_09	CCGS: Potential for Revocation of Noise Variance which allows night and weekend work. This could have a cost and schedule impact to the CCGS project.	9	No change / HART will pursue greater involvement with the community to inform them of construction activities and be more responsive to their concerns. HART can mitigate by compensating the contractor to utilize noise mitigation strategies and by maintaining open communication with DOH who controls the noise variance.
DB550 SYS 50.03_01	CCGS: Interface impacts between CCGS and other contracts, including CCUR and Core Systems Contractor.	9	No change / HART is working to make sure CCUR work is completed as expeditiously as possible.
MI900 SYS 50.06_11	Fare: Rail Station installation of Fare Systems equipment could be delayed if Stations' electrical systems are not ready in time for Operational Readiness.	9	No change / Coordinate with station contractors to develop and share station as-builts with the Fare System Vendor. Coordinate schedules as well to allow enough time for testing and installation at each of the stations.
DB550 SIT 40.02_07	CCGS: Misidentified and Unidentified Utilities. Costs for utility relocations may increase if utility plans have deviations greater than contract stipulation.	9	No change / Scope AECOM or GEC to produce preliminary utility relocation designs to reduce the risk of utility designs delaying CCGS DB contractor station construction.
DBB511 SIT 40.08_01	CCUR: Delay in obtaining design finalization continues to result in delays to permitting and critical utility relocation work.	9	No change / HART continues to coordinate with City agencies on the design finalization to provide any further design information that is needed, and to reduce the timeframes for review and permitting of utility relocation work.
DBB511 SIT 40.02_24	CCUR: Field changes resulting from HECO requirements.	9	No change / HART is continuing to coordinate with HECO to identify all appropriate requirements are fully planned, such as epoxy coated manholes, and increased conduit diameters for cabling.
DBB511 SIT 40.02_01	CCUR: Insufficient construction performance by utility owners.	9	No change / HART is coordinating with utility companies, including HTI and AT&T, to ensure enough resources to meet HART's schedule for utility relocations along the corridor.

2.15.3 Top Risk Opportunities

The following risk scoring table (used in the calculation of the risk opportunity scores shown below) is in accordance with FTA guidelines for summarizing the overall severity of project risks. HART has adjusted the cost and schedule ranges shown below in order to scale values to an appropriate level as it relates to this project.

Risk Scoring for Risk Opportunities			
Impact Scores Legend	Low 1	Medium 2	High 3
(P) Probability	<10%	>10% <50%	>50%
(C) Cost Impact	<\$10 M	>\$10 M <\$50 M	>\$50 M
(S) Schedule Impact	<1 month	>1 month <4 months	>4 months
Rating	<6	7 - 12	13 - 18
Score = (Cost + Schedule) * Probability			

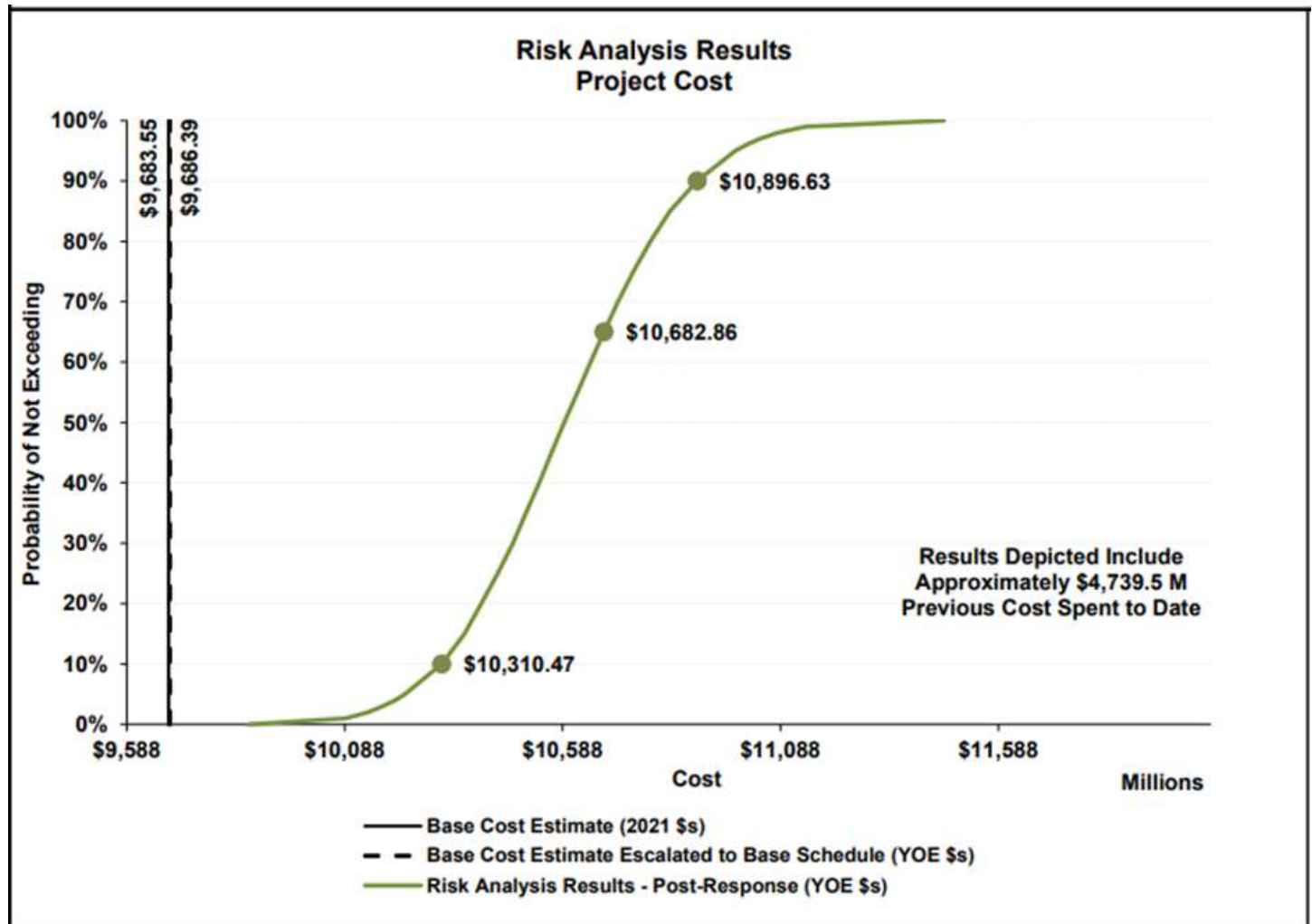
Like the legend for scoring of Risk Threats, Risk Opportunities are assessed based on the probability of occurrence, potential (expected value) cost impact, and potential (expected value) schedule delay (to the critical path of the program). The total score is arrived at by adding the cost and schedule impact scores, multiplied by the probability score. The scoring calculation for Risk Opportunities is the same as for Risk Threats; however,

in the Opportunities scoring table above, high opportunity scores are colored green (versus red), low opportunity scores are colored blue (versus green), and medium opportunity scores are still colored yellow.

Risk ID	Risk Description	Risk Opportunity Score	Risk Mitigation
DBB511 GUI 10.04_03	CCUR: Mauka Shift. Descoping dry utilities in Area 1C. Underground circuit on Mauka side and leave everything aerial on Makai side. Guideway must shift Mauka, closer to HCC, which will require additional approvals. It's a sweeping curve that needs to happen where there is a curve already.	6	April 2021 – The decision on the Mauka Shift has been made. This risk will be retired as the base costs are updated during future risk updates.

2.15.4 Cost and Schedule Probability Curves

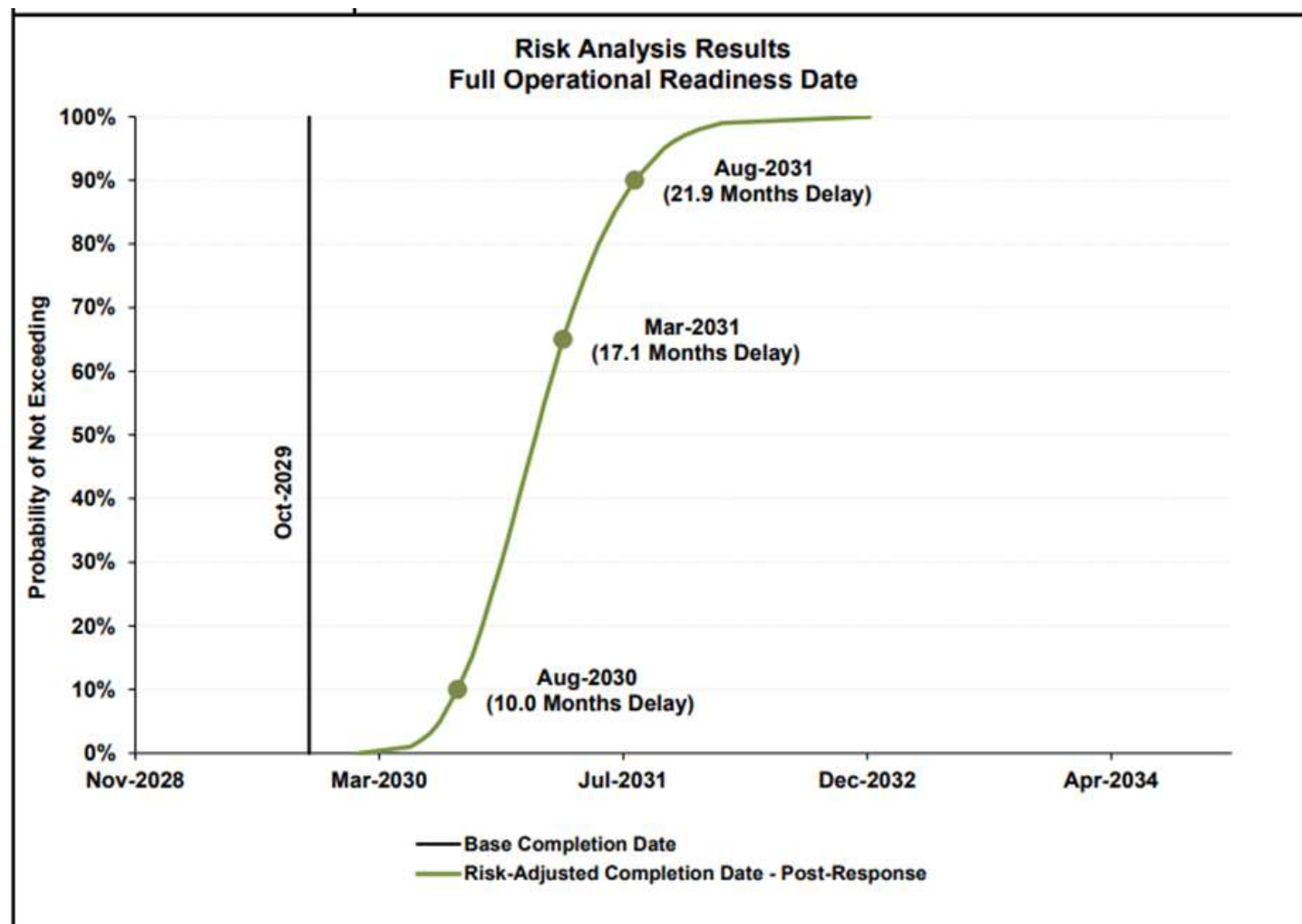
Cost Probability Curve, June 2021 Risk Data



The differences from last month are minimal – overall the total cost went down by \$36 million - \$10,718 million last month to \$10,682 million this month at the P65 (about 0.3% decrease in cost).

The base costs decreased by about \$14 million, driven largely by a decrease in ROW of about \$32 million and an increase in Airport of \$20 million (that explains \$12 million of the base cost change). The risk cost went down by about \$22 million – there is a 0.1 month earlier Operational Readiness date and we had a few less risks in total this month.

Schedule Probability Curve, June 2021 Risk Data



Note the P65 Operational Readiness date is now showing as March 2031 in the S-curve, as opposed to April 2031 last month, but in reality the reduction was only a few days as the April 2031 date was actually April 3, 2031 and now we are reduced to March 30, 2031. So it was not a whole month reduction, though it may appear that way in the chart.

2.15.5 Ongoing Risk Mitigation Efforts

Last month, HART decided on the approach to incorporate the Mauka Shift. Next months' (July) risk workshops will be conducted on CCGS, CCUR, ROW and Core Systems to determine the impacts of this decision on each project. During these virtual workshops, new risks will be identified and quantified, existing risks will be updated or retired. Each risk owner will then work towards ensuring that every remaining active risk will have an appropriate response strategy in place to minimize the probability of occurring or reduce its impacts to the project if it does occur.

2.16 Construction Claims

Pursuant to FTA Circular 4220.1F, HART is obligated to notify the FTA and PMOC about third-party claims and litigation with which it is involved. HART considers a "claim" to arise when a third-party contractor submits a request for a final written decision by the Contracting Officer. Pursuant to Hawai'i Revised Statutes Section 103D-711 and Hawai'i Administrative Rules Section 3-126-28, the Contracting Officer's decision is deemed final and the basis on which the aggrieved party can initiate an action in Circuit Court within six (6) months of receipt of the Contracting Officer's decision.

HART is tracking the following claim:

Contract	Contractor	Claim Description	Claim Amount	Status
FHSG CT-HRT-1500236	Hawaiian Dredging Construction Company	COVID-19 Quarantine Costs	\$37,137	Having found the claim to be without merit, the HART Contracting Officer denied it on May 25, 2021. To further appeal the issue, HDCC must bring an action for judicial review in circuit court no later than six months from receipt of the Contracting Officer's decision. In this case, HDCC must file in circuit court by November 25, 2021.

2.17 Quality Management

Data Improvements

- As stated in last month's report, since several NCR records were closed *en masse* to reflect status in early June, only the July report (communicated in August) will begin to show accurate NCR closures.
- All CCUR NCRs have been closed. Beginning in the July Report, CCUR will no longer be reported on in the below table, unless new NCRs are generated.

Key Issues

HART NCR Log (Source: Unifier)		
Total NCRs	Closed (June/Total)	Open (June/Total)
614 AGS NCRs	14/505	9/109
22 CCUR NCRs	5/22	0/0
74 KHSN NCRs	Monthly Total will start in July/68	0/6
88 CSC NCRs	Monthly Total will start in July/82	0/6

Note: Only NCRs related to Trains are excluded from the Unifier system.

- Per HRH, there are a total of 2,463 NCRs for Trains, with 281 NCRs open.
- Resolution of major NCRs that need to be addressed and corrected to prevent recurrence, and to mitigate impact on the overall progress of the project:
 - Passenger Vehicles: The following is an NCR which impacted the Train Fleet:
 - Paint/Wrapping Surface Defects – The missing decal on Train #10 is on-island, but has not yet been installed.

2.18 Safety and Security (S&S)

Key Milestone Progress

During the month of June, HART Safety:

- Verified and closed out 178 certifiable items pertaining to Segment 1 operational readiness, bringing the total number of remaining open certifiable items down from 922 to 744. Consequently, overall certification of Segment 1 has increased from 96% to 97%.
- Verified and closed out 33 certifiable items pertaining to Segment 2 operational readiness, bringing the total number of remaining open certifiable items down from 4,343 to 4,314 and bringing Segment 2 up to 60%.
- Reviewed and provided comments for 73 safety-related submittals in Unifier.
- Issued three Certificates of Conformance: UPS Segment 1, TES MSF, TES Segment 1.
- Processed two Specification and Testing Conformance Checklists (TES MSF and TES Segment 1) at the Safety and Security Certification Working Group meeting, which resulted in their acceptance by the Safety and Security Review Committee.
- Participated in weekly meetings and field activities with Core Systems/TTCI and ensured testing was performed in a safe manner.
- Provided documentation to DTS in support of their review of the PSGS and Fare Collection certification.

Segment 1 Operational Readiness Certification Status

Segment 1 (West) Certification Progress	Total Items	Verified 1/1/2021	Verified to Date	Total Remain	Verified YTD	% Complete
MSF (Civil & Systems)	720	720	720	-	-	100%
MOW Vehicles	458	458	458	-	-	100%
Guideway (Civil & Systems)	7,368	7,368	7,368	-	-	100%
Stations & Parking (Civil & Systems)	6,410	6,340	6,401	9	61	99.9%
Pass Vehicles (PV 8-14 + Fleet)	1,735	1,581	1,688	47	107	97%
Traction Electrification System (TES)	301	266	295	6	29	98%
Automatic Train Control (ATC)	346	328	338	8	10	98%
Suprv Control and Data Acq (SCADA)	80	54	78	2	24	98%
Communication (incl FDAS, UPS)	1,260	777	1,138	122	361	90%
System Integration Testing (SIT)	159	85	136	23	51	86%
Passenger Screen Gate Sys (PSGS)	105	96	105	-	9	100%
Elevators / Escalators	550	295	466	84	171	85%
Fare Collection System	76	39	76	-	37	100%

Segment 1 (West) Certification Progress	Total Items	Verified 1/1/2021	Verified to Date	Total Remain	Verified YTD	% Complete
Art in Transit	168	35	35	133	-	21%
Operational Readiness (ORCC/TOCC)	483	261	355	128	94	73%
Risk Management (PHA/TVA/OIL/HTL)	3,461	3,038	3,279	182	241	95%
Total Segment 1 - West	23,680	21,741	22,936	744	1,195	97%

Segment 2 Operational Readiness Certification Status

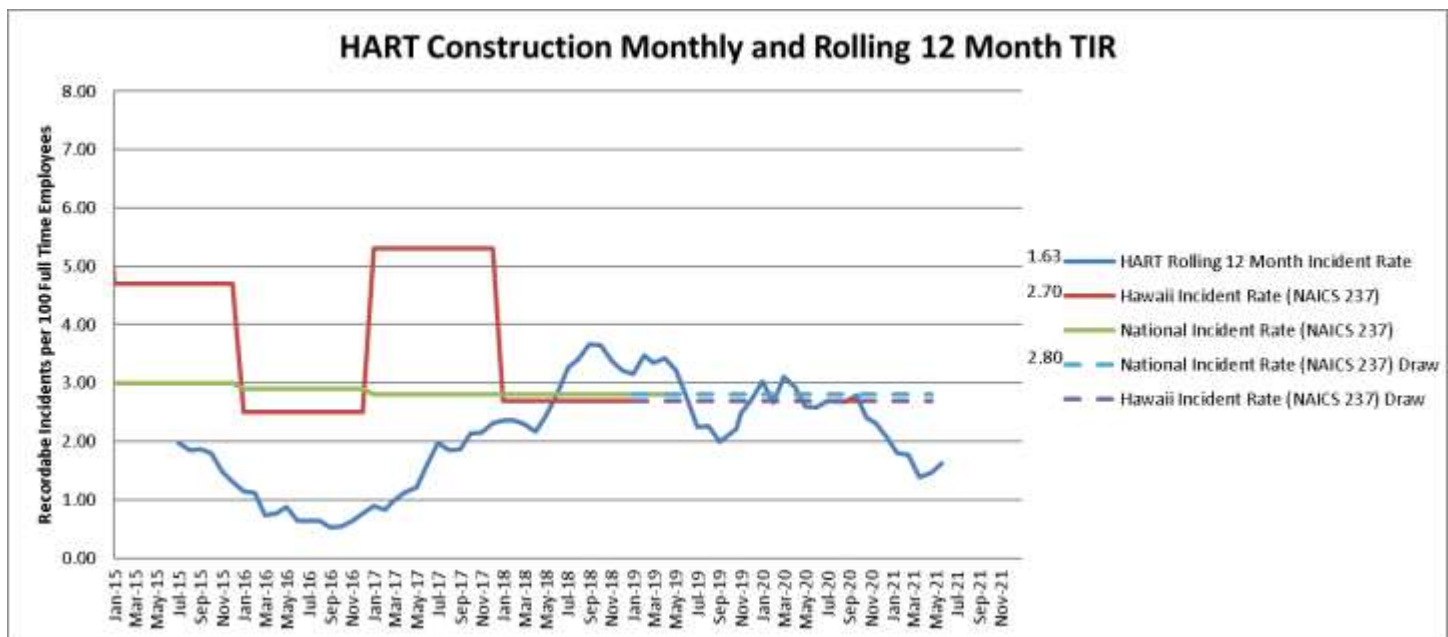
Segment 2 (AGS) Certification Progress	Total Items	Verified 1/1/2021	Verified to Date	Total Remain	Verified YTD	% Complete
Guideway (Civil & Systems)	3,101	2,204	2,357	744	153	76%
Stations & Parking (Civil & Systems)	2,993	1,584	1,584	1,409	-	53%
Pass Vehicles (1-7 & 14-20)	2,370	1,069	1,484	886	415	63%
Traction Electrification System (TES)	54	4	4	50	-	7%
Automatic Train Control (ATC)	29	12	12	17	-	41%
Suprv Control and Data Acq (SCADA)	47	8	8	39	-	17%
Communication	96	-	24	72	24	25%
System Integration Testing (SIT)	44	-	-	44	-	0%
Passenger Screen Gate Sys (PSGS)	8	-	-	8	-	0%
Elevators / Escalators	33	-	-	33	-	0%
Fare Collection	50	-	-	50	-	0%
Art in Transit	63	-	-	63	-	0%
Operational Readiness (ORCC/TOCC)	555	-	-	555	-	0%
Risk Management (PHA/TVA/OIL/HTL)	1,287	923	943	344	20	73%
Total Segment 2 - AGS	10,730	5,804	6,416	4,314	612	60%

Construction Safety and Security: Safety and Security Incidents

Incidents for June 1 - 30, 2021:

- Recordable Safety Incidents (medical treatment and/or lost time only):
 - HRH/Pacific Power Electrical Contracting (PPEC): An employee misstepped and slipped while climbing down a ladder which resulted in a right knee strain. The employee received prescription medication and was taken off work for the rest of the day. The employee was able to return to work the next day, while maintaining light duty restrictions.
 - STGJV: An employee twisted his ankle at the baseball field laydown yard while assisting the extreme rough terrain forklift in picking up materials from on top of a crane. The employee stepped onto a rock and twisted his ankle.
- Security Incidents (arrests and/or thefts only):
 - None.

2020	2021					
OCIP Participants Hours worked	No. of Recordable	No. of Loss Time	OCIP Participants Hours worked	No. of Recordable	No. of Loss Time	
January	95,752	3	1	124,415	1	1
February	99,062	0	0	131,599	0	0
March	109,615	3	0	138,916	0	0
April	88,921	1	1	144,605	2	0
May	188,564	0	0	124,109	1	0
June	146,750	2	2			
July	178,793	3	2			
August	115,694	1	1			
September	152,065	1	0			
October	178,756	1	0			
November	130,105	1	0			
December	150,335	1	1			
Total	1,634,412	17	8	663,644	4	1
OSHA Total Incident Rate (TIR).	2.08			12 Month - Rolling TIR 1.63		
*Work hours from OCIP enrolled contracts						



2.19 Buy America Compliance (49 CFR 661 and 49 CFR 663)

Overview and Key Issues

- The CSC continues to execute the corrective action plan to meet the Passenger Vehicle (PV) Buy America requirements on Train #1 in Pittsburg and Train #2 in Miami. HRH has not yet dispositioned the NCR for the removed “foreign” interior components (Glass Reinforced Plastic [GRP] panels) from Trains #1 and #2. They are awaiting input from Hitachi engineering if the panels are to be reworked or scrapped. The non-compliant removed handrails have been dispositioned by Hitachi as scrap. The Core Systems Oversight Consultant (CSOC) representatives continue to closely monitor the labeling and location of these materials to ensure they are not reused.
- The CSC has provided a summary level plan for the remote on-island site to conduct the retrofit of Trains #3 through #6. HRH has identified a manager from the Pittsburg facility who will supervise the retrofit activity on-island. The CSC plans to transport the first train to the retrofit site, the week of July 11, 2021.
- CSOC has continued coordination with HRH and the Raul V. Bravo + Associates, Inc. (RVB+A) Buy America auditors in preparation for the remote audit. The audit must include the Operational Readiness #1 fleet. However, both the CSC and RVB+A have agreed that the scope of the audit can be expanded to include the entire 20-train fleet as proposed by HART Management.
- HRH has provided CSOC with a more detailed explanation of each change since the Initial Post-Delivery audit conducted in June 2018. This explanation of changes has been provided to the RVB+A in advance of the audit for their review in establishing audit focus areas.
- A follow-up coordination teleconference was conducted on June 24, 2021, between CSOC, CSC and RVB+A to address the documentation to be made available for the audit that demonstrates the implementation of the HART-accepted Hitachi Corrective Action plan specifically for the interior components. HRH agreed to work with their interior component supplier to ensure the documentation is available for the audit.
- HRH indicated that Hitachi Corporate will not authorize the transmittal of electronic copies of confidential Purchase Order/pricing information to the auditors. In order to conduct the remote audit, the RVB+A auditors will be able to remotely view this documentation via videoconference. In order to ensure the confidentiality of this information, HRH plans to have a representative present at the RVB+A offices during the viewing of these documents.
- CSOC is finalizing an amendment to RVB+A’s contract to address the expanded scope of the Post-Delivery Audit closeout, for approval by HART Management.

Train #	Anticipated Date for BA Compliance	Open Issues
1	Q3 2021	Installation of interior panels and under car rework are substantially completed. Testing is in progress.
2	Q4 2021	Heat shields are installed; however, a few heat shields components are missing to complete the retrofit under the car.
3	TBD	Interior panels in M-Cars requires replacement for BA compliance.
4	TBD	Requires M-car interior panel and Auxiliary Power Supply (APS) retrofit in accordance with BA Corrective Action Plan.
5	Completed	Requires fire resistivity retrofit.
6	Completed	Requires fire resistivity retrofit.

Train #	Anticipated Date for BA Compliance	Open Issues
7	Completed	No issue and delivered to MSF on July 10, 2020.
8	Completed	No issue and delivered to MSF on March 27, 2020.
9	Completed	No issue and delivered to MSF on Feb. 14, 2020.
10	Completed	No issue and delivered to MSF on Dec. 9, 2019.
11	Completed	No issue and delivered to MSF on Jan. 9, 2020.
12	Completed	No issue and delivered to MSF on Oct. 26, 2019.
13	Completed	No issue and delivered to MSF on May 8, 2020.
14	Completed	No issue and delivered to MSF on June 1, 2020.
15	Completed	No issue and delivered to MSF on Oct. 30, 2020.
16	Completed	No issue and delivered to MSF on Jan. 22, 2021.
17	Completed	No issue and delivered to MSF on March 23, 2021.
18	Completed	No issue and delivered to MSF on April 30, 2021.
19	Completed	No issue and delivered to MSF on June 25, 2021.
20	Q1 2022	No manufacturing activity in Miami on the T20-E2 Car. Delivery of the remaining three car shells from Italy is scheduled for August 2021.

= Operational Readiness #1 Fleet

2.20 Disadvantaged Business Enterprise (DBE)

Activities this Month

- \$176,001,277 = total dollar participation for all DBEs on all HART contracts from 9/24/07 to 6/30/21
 - 21.8% = DBE utilization on total disbursed FTA funds received to date (\$176,001,277 divided by \$806,258,734)
 - 10.0% = DBE utilization to date on total Project FTA funds (\$176,001,277 divided by \$1,763,903,901)
 - 11.4% = DBE utilization to date on 5309 Project FTA funds (\$176,001,277 divided by \$1,550,000,000)
 - 13% = DBE Project Goal. Any contract subject to the Federal Clauses has a 13% Race Neutral DBE goal.

2.21 Readiness and Activation

Ongoing Activities

- Key Readiness and Activation (R&A) Activities
 - Completed Safety and Security Certification Verification Report (SSCVR) reviews for the Platform Automatic Screen Gates and Fare Collection System elements.
 - Participate in meetings with HART Core Systems to reconcile comments on the Trial Operations Management Plan.
 - Work closely with HART Engineering & Design to finalize the Guideway Tendon Procedure Matrix.
 - Facilitate System Assurance Monitoring Plan Workshops with HRH O&M staff (Master Alarm List 97%).
- Key HRH Mobilization Activities
 - O&M Training
 - HRH Individual Role Training Plans (IRTP) are 97.5% complete.
 - HRH developed the training materials for the Maintenance Management Information System (MMIS) and commenced the train-the-trainer training.
 - HRH completed ATC System overview training.
 - HRH confirmed that the remaining Communications Training (Gen 01-02) was removed from the requirements list due to redundancy with the detailed Communications Training, which was already completed.
 - HRH resubmitted the Trial Operations Plan (Rev F) and Track Inspection and Maintenance Practices (Rev E).
 - Maintenance Activities
 - MMIS maintenance Job Plans are 100% complete and are being prepared to load into the MMIS.
 - HRH developed and implemented an O&M Spare Parts Tracker.
- Project stakeholder coordination
 - HRH is responding to HART about contractual responsibilities for obtaining the required functions for the P25 radios.

Look Ahead

- Close out Transit Agency Rail Safety Plan and System Security Plan Implementation Workshop Action Items with HRH Health, Safety, & Environment staff.
- Complete Responsible, Accountable, Consulted and Informed (RACI) Workshops for Accident Incident, Emergency Management, and Drug & Alcohol Procedures with HRH Health, Safety, & Environment staff.
- HRH to complete MMIS training for regular end users.
- HRH to complete Vertical Transportation Training before the commencement of Trial Running.
- DTS and HART to reconcile comments from the final completion station walkthroughs with the fixed facility contractors.
- HRH O&M staff to continue increasing the number of shifts focused on pre-trial running activities.

2.22 Community Outreach

Overview

- Pubic Involvement (PI) and Hitachi Rail Honolulu hosted six group tours of the Rail Operations Center (ROC), the Hālawā (Aloha Stadium) Station and the Hālaulani (Leeward Community College) Station for government elected officials and the UH College of Engineering Pacific Summer Transportation Education Program (PAC-STEP).
- PI completed two new Construction Update videos for its website, social media and e-Blast platforms.
- PI uploaded 22 posts on social media (Facebook, Instagram, YouTube).
- HART distributed its weekly e-blast to targeted Neighborhood Boards on the 20-mile alignment. The PI team attended five Neighborhood Board meetings in June 2021 including the Downtown-Chinatown, Nuuanu-Punchbowl, Kalihi-Palama, Ala Moana-Kakaako, and Waipahu Neighborhood Boards. Several Neighborhood Boards have resumed monthly meetings in-person, while others continue meeting virtually due to the COVID-19 pandemic.
- PI participated in STG's Business and Community Outreach Meeting for the AGS contract segment.

Community Input

- HART's Public Outreach team responded to 29 public inquiries and comments via the 24-hour project hotline (18 inquiries) and project email (info@HonoluluTransit.org with 11 inquiries) during the month of June 2021. Inquiries were generally related to project updates, road maintenance, and road closures.
- PI coordinated two Interim Chief Executive Officer (ICEO) media interviews with Hawai'i Public Radio's show 'The Conversation' and a live interview on 'Sunrise' Hawaii News Now. HART provided updates regarding the Honolulu Rail Transit Project's construction progress and outlined updates about the tracks, utility relocation, and project costs.

APPENDICES

Appendix A. List of Acronyms

A&E	Architect/Engineer	BIC	Ball in Court
AACE	Association for the Advancement of Cost Engineering	BLNR	Board of Land and Natural Resources
AAN	Accepted as Noted	BLS	Blue Light Station
AANR	Accepted as noted, resubmit	BMP	Best Management Practice
AC	Asphalt Concrete	BOC	Backup Operations Center
ACB	Articulated Concrete Block	BOCC	Backup Operations Control Center
ACHP	Advisory Council on Historic Preservation	BOD	Board of Directors
ACI	Application Centric Infrastructure	BOH	Bank of Hawaii
ACS	Access Control System	BOM	Bill of Materials
ADA	Americans with Disabilities Act	BPS	Baseline Project Schedule
AFA	Air Force Association	BRB2	Build Rail Better-2
AFE	Authorized for Expenditure	BUE	Bottom-Up Estimate
AG	Attorney General	BUEG	Back-up Emergency Generator
AGA	Association of Government Accountants	BUILD	Better Utilizing Investments to Leverage Development
AGS	Airport Guideway and Stations	BWS	Board of Water Supply
AHA	Activity Hazard Analysis	C2C	Cost to Cure
AIS	Archaeological Inventory Survey	C&C	City and County
AIT	Art-in-Transit	CAD	Computer-Aided Design
ALS	Aloha Stadium Station	CADD	Computer-aided Design and Drafting
AMP	Archaeological Monitoring Plan	CAM	Construction Access Milestone
ANR	Accepted as Noted–Resubmit	CAP	Corrective Action Plan
APE	Area of Potential Effect	CAR	Corrective Actions
API	Application Program Interface	CAT7	Category 7
APS	Auxiliary Power Supply	CatEx	Categorical Exclusion
APTA	American Public Transportation Association	CC2	City Center Phase 2
ARRA	American Recovery and Reinvestment Act	CC3	City Center Phase 3
ARU	Auxiliary Release Units	CCC	Contract Change Committee
ASG	Airport Station Group	ccd	Consecutive Calendar Days
ASI	Architect Supplemental Information	CCGS	City Center Guideway and Stations
ASTM	American Society for Testing and Materials	CCH	City and County of Honolulu
ASU	Airport Section Utilities	CCO	Contract Change Order
ATB	Asphalt Treated Base	CCP	Certified Cost Professional
ATC	Automatic Train Control	CCTV	Closed-circuit Television
ATFAC	Active Transportation and Food Access Committee	CCUG	City Center Section Utilities and Guideway
ATO	Automatic Train Operation	CCUR	City Center Utilities Relocation
ATP	Automatic Train Protection	CDC	Compendium of Design Criteria
ATS	Automatic Train Supervision	CDL	Commercial Driver License
AV	Autonomous Vehicle	CDR	Conceptual Design Review
AVA	Anil Verma Associates, Inc.	CDRL	Contract Document Requirements List
AVS	Address Verification Systems	CEB	Civil Engineering Branch
AW0	Assigned Weight, Empty Vehicle (rail car weight with no passengers)	CEI	Construction Engineering and Inspection
AW3	Assigned Weight, Crush Load (empty weight plus crush load of standees)	CEL	Certifiable Elements List
BA	Buy America	CEO	Chief Executive Officer
BAC	Buy America Compliance	CFM	Configuration Management
BACM	Buy America Compliance Matrix	CFMP	Configuration Management Plan
BAFO	Best and Final Offer	CFO	Chief Financial Officer
BANCT	Best Available Noise Control Technology	CHB	Car History Book
BAP	Buy America Plan	CIC	Communication Interface Cabinet
BART	Bay Area Rapid Transit	CID	Customer Installation Department
BCS	Balanced Cantilever System	CIL	Certifiable Items List
BFMP	Bus Fleet Management Plan	CIP	Cast-in-place
BFS	Budget and Fiscal Services	CJA	Condon-Johnson & Associates
		CLOMR	Conditional Letter of Map Revision

CLR	Cultural Landscape Report	DD	Definitive Design
CLSM	Controlled Low-strength Material	DDC	Department of Design and Construction
CM	Construction Manager	DDC-MED	Department of Design & Construction-Mechanical & Electrical Division
CMP	Construction Management Plan	DED	Deputy Executive Director
CMU	Concrete Masonry Unit	DES	Department of Environmental Services
CNMMP	Construction Noise Mitigation and Monitoring Plan	DF	Direct Fixation
CO	Change Order	DFF	Direct Fixation Fastener
COI	Conflict of Interest	DFIM	Design Furnish Install Maintain
COMMs	Communications	DFM	Department of Facility Maintenance
CONRAC	Consolidated Rental Car Facility	DHHL	Department of Hawaiian Homelands
COO	Chief Operating Officer	DHR	Department of Human Resources
COR	Corporation Counsel	DIT	Department of Information Technology
CORP	Central Oahu Regional Park	DKSG	Dillingham and Kaka'ako Station Group
CP	Contractor Proposed	DLIR	Hawai'i Department of Labor and Industrial Relations
CPC	Cost Proposals by Consultant	DLNR	Department of Land and Natural Resources
CPM	Critical Path Method	DMWR	Double Crossover Modifications and Weld Repairs
CPO	Chief Procurement Officer	DOE	Department of Education
CPP	Contract Packaging Plan	DOH	Department of Health
CR	Consolidated Resolution	DOJ	Department of Justice
CRM	Customer-Relationship Management	DOL	Department of Labor
CRMS	Customer Relational Management System	DOT	Department of Transportation
CROE	Construction Right-of-Entry	DPM	Deputy Project Managers
CRRB	Car Readiness Review Board	DPP	Department of Planning and Permitting
CSC	Core Systems Contractor	DPR	Department of Parks and Recreation
CSCC	Construction Specification Conformance Checklist	DPS	Department of Public Safety
CSD	Department of Customer Services	DRH	D.R. Horton
CSDBOM	Core System Design-Build-Operate-Maintain	DS	Downstream
CSL	Cross Hole Sonic Logging	DSDC	Design Services During Construction
CSOC	Core Systems Oversight Consultant	DTL	Digital Train Link
CSSC	Core System Support Consultant	DTS	Department of Transportation Services
CSSM	Construction Safety and Security Manager	DTU	Dillingham Temporary Utilities
CSSO	Chief Safety and Security Officer	DUF	Division of Urban Forestry
CSSP	Construction Safety & Security Plan	DURP	Department of Urban and Regional Planning
CST	Customer Service Terminal	DVT	Design Verification Test
CTP	Central Test Procedure	DXO	Double Crossovers
CTS	Communications Transmission System	E&E	Elevators and Escalators
CW	Contract-Wide	E&O	Errors and Omissions
CWA	Clean Water Act	EA	Environmental Assessment
CWR	Continuous Welded Rail	EAC	Estimate at Completion
CWRM	Commission on Water Resource Management	EB	East Bound
CZM	Coastal Zone Management	EC	Environmental Compliance
D&C	Design & Construction	ECP	Environmental Compliance Plan
DAGS	Department of Accounting & General Services	ED-CEO	Executive Director and Chief Executive Officer
DAV	Disabled American Veterans	EDD	Executive Decision Document
DB	Design-Build	E/E	Elevator/Escalator
DBB	Design-Bid-Build	EEC	Elevators & Escalators Contractor
DBE	Disadvantaged Business Enterprise	EFT	Electronic Funds Transfer
DBEDT	Department of Business, Economic Development and Tourism	EHE-EHMP	Environmental Hazard Evaluation and Environmental Hazard Management Plan
DBF	Design-Build-Finance	EHU	Electro Hydraulic Units
DBFOM	Design-Build-Finance-Operate-Maintain	EIS	Environmental Impact Statement
DBOM	Design-Build-Operate-Maintain	EJ	Expansion Joint
DCAB	Disability and Communication Access Board	EKP	East Kapolei
DCCA	Department of Commerce and Consumer Affairs	EMC	Electromagnetic Compatibility
DCCC	Design Criteria Conformance Checklists		
DCN	Design Change Notice		

EMF	Electromagnetic Forces	FP	Fix Panel
EMI	Electromagnetic Interference	FPM	Fix Panel Mono
EMP	Emergency Management Panel	FPO	Federal Preservation Officer
EMR	Elevator Machine Room	FRB	Failure Review Board
EMT	Electrical Metallic Tubing	FSC	Fare Systems Contract
ENV	City and County of Honolulu Department of Environmental Services	FSP	Fire Stand Pipe
EOM	End of Month	FTA	Federal Transit Administration
EOR	Engineer of Record	FTB	Fluidized Thermal Backfill
EOS	Electrically Operated Switch	FTE	Full-Time Equivalent
EPA	Environmental Protection Agency	FUT	Functional Unit Testing
EPB	Emergency Push Button	FWS	Fish and Wildlife Service
EPO	Emergency Power Cut-off	FY	Fiscal Year
ERD	Environmental Review Documentation	GAT	Great Aleutian Tsunami
ESA	Environmental Site Assessment	GBS	Gap Breaker Station
ESSG	East Side Station Group	GC	General Contractor
ETA	Estimated Time of Arrival	GDR	Geotechnical Data Report
ETC	Estimate to Complete	GEC	General Engineering Consultant
E-Tel	Emergency Telephone	GER	Geotechnical Engineering Report
ETS	Emergency Trip System	GET	General Excise and Use Tax
EV	Expected Value	GFCI	Ground-Fault Circuit Interrupter
EVC	Electronic Vehicle Counter	GGP	General Growth Properties
F&P	Fehr & Peers	GIS	Geographical Information System
FAA	Federal Aviation Administration	GOE	Grant of Easement
FACI	First Article Configuration Inspection	GPR	Ground Penetrating Radar
FAI	First Article Inspection	GR & PI	Government Relations & Public Involvement
FAR	Floor Area Ratios	GRP	Glass Reinforced Plastic
FAT	Factory Acceptance Tests	GSA	General Services Administration
FBF	Flange Bearing Frog	GT	General Terms
FC	Fare Collection	GTC	General Terms and Conditions
FCC	Federal Communications Commission	GTFS	Generic Transit Feed Specification
FCN	Field Change Notice	GW	Guideway
FCU	Fan Coil Units	HA	Hazard Analysis
FD	Final Design	HABS	Historic American Buildings Survey
FDAS	Fire Detection Alarm System	HACBED	Hawai'i Alliance for Community-Based Economic Development
FDC	Field Design Change	HAER	Historic American Engineering Record
FDR	Final Design Review	HALS	Historic American Landscape Survey
FEIS	Final Environmental Impact Statement	HAR	Hawai'i Administrative Rules
FEMA	Federal Emergency Management Agency	HART	Honolulu Authority for Rapid Transportation
FFC	Fixed Facility Contractor	HLB	Hawaii Bicycling League
FFGA	Full Funding Grant Agreement	HCC	Honolulu Community College
FHB	First Hawaiian Bank	HCDA	Hawai'i Community Development Authority
FHSG	Farrington Highway Station Group	HCS	Historic Context Studies
FHWA	Federal Highway Administration	HCSD	Hawai'i Capital Special District
FISC	Fleet and Industrial Supply Center	HDCC	Hawaiian Dredging Construction Company
FIT	Field Integration Test	HDD	Horizontal Directional Drilling
FLSWG	Fire/Life-Safety Working Group	HDOE	Hawai'i Department of Education
FM	Force Main	HDOH	Hawai'i Department of Health
FMB	Fasi Municipal Building	HDOT	Hawai'i Department of Transportation
FMEA	Failure Modes and Effects Analysis	HDOT-A	Hawai'i Department of Transportation Airports Division
FMECA	Failure Modes, Effects, and Criticality Analysis	HDPE	High-density polyethylene
FNC	Final Negotiated Cost	HECO	Hawaiian Electric Company
FO	Fiber Optic	HEI	High Energy Inc.
FOCN	Fiber Optic Communication Network	HFD	Honolulu Fire Department
FOM	Finding of Merit/No Merit	HH	Handhole
		HHC	Howard Hughes Corp

HHF	Historic Hawai'i Foundation	IP	Implementing Procedures
HHFDC	Hawaii Housing Finance & Development Corporation	IRTP	Individual Role Training Plans
HHM	Hardy Heck Moore	IST	Integrated System Test
HHPRB	Hawai'i Historic Places Review Board	ITE	Institute of Transportation Engineers
HIA	Honolulu International Airport	ITP	Inspection and Test Plan
HIE	Hawaii Independent Energy	ITS	Intelligent Transportation Systems
HILT	Hawaiian Islands Land Trust	IVR	Interactive Voice Response
HIOSH	Hawaii Occupational Safety and Health Division	JB	Junction Box
HOP	Ho'opili	JDSU	JDS Uniphase Corporation
HP	Historic Preservation	JG	Jet Grouting
HPC	Historic Preservation Committee	JTMC	Joint Traffic Management Center
HPCA	Historic Preservation Certification Application	JTMS	Joint Traffic Management System
HPCAT	Historic Preservation & Cultural Awareness Training	JU&O	Joint Use & Occupancy
HPD	Honolulu Police Department	JUOA	Joint Use and Occupancy Agreement
HPF	Historic Preservation Fund	JV	Joint Venture
HPL	Horizon Partners Ltd.	KCC	Kapi'olani Community College
HPU	Hawai'i Pacific University	KCDD	Kaka'ako Community Development District
HR	Hitachi Rail	KCH	Kanehili Cultural Hui
HRH	Hitachi Rail Honolulu Joint Venture	KHG	Kamehameha Highway Guideway
HRHP	Hawai'i Register of Historic Places	KHR	Kamehameha Highway Resurfacing
HRI	Hitachi Rail Italy	KHSG	Kamehameha Highway Station Group
HRR	Heat Release Rate	KIWC	Kiewit Infrastructure West Company
HRS	Hawai'i Revised Statutes	KKJV	Kiewit/Kobayashi Joint Venture
H RTP	Honolulu Rail Transit Project	KPI	Key Performance Indicator
HRU	Hitachi Rail USA, Inc.	KS	Kamehameha Schools
HSN WG	Hawaiian Station Naming Working Group	KVIBE	Kalihi Valley Instructional Bike Exchange
HSQE	Health, Safety, Quality and Environment	KVM	Keyboard Monitor Mouse
HSSQE	Health Safety Security Quality and Environment	L+E	Lea +Elliott
HTI	Hawaiian Telcom	LAN	Local Area Network
HTL	Hazard Tracking Log	LCC	Leeward Community College
HV	High Voltage	LCP	Local Control Panel
HVAC	Heating, Ventilation, and Air Conditioning	LD	Lagoon Drive
I&I	Installation and Interface	LDS	Latter Day Saints
I&T	Inspection & Testing	LEED	Leadership in Energy and Environmental Design
IAMR	Interstate Access Modification Report	LF	Linear Feet
IBEW	International Brotherhood of Electrical Workers	LOO	Letter of Offer
IC	Interim Certification	LOTB	Log of Test Borings
ICAP	Individual Corrective Action Program	LPR	License Plate Reader
ICCS	Integrated Communications Control System	LRV	Light Rail Vehicle
ICD	Interface Control Documents	LT	Load Test
ICE	Independent Cost Estimate	LTC	Load Tap Changer
ICEO	Interim Chief Executive Officer	LV	Low Voltage
ICM	Interface Control Manual	LVPS	Low Voltage Power Supply
ICWG	Interim Certification Working Group	MAI	Mason Architects
IDIQ	Indefinite Delivery/Indefinite Quantity	MCY	Makai Casting Yard
IDS	Intrusion Detection System	MD	Managing Director
IEEE	Institute of Electrical and Electronics Engineers	MDO	Office of the Managing Director
IFB	Issued for Bid	MDS	Mobile Data System
IFC	Issued for Construction	MED	Mechanical/Electrical Division
IIT	Integrated Industrial Technology	MEP	Mechanical, Electrical and Plumbing
IJ	Isolation Joint	MH	Manhole
IMP	Interface Management Plan	MHHW	Mean Higher High Water
INMS	Integrated Network Management System	MIM	Manufacture-Install-Maintain
I/O	Interim Opening	MIP	Manufacturing and Inspection Plans
IOMP	Intermediate Operations and Maintenance Period	MITT	Multimodal Integration Technical Team

MMIS	Maintenance Management Information System	OHA	Office of Hawaiian Affairs
MMP	Mitigation Monitoring Program	OIBC	O'ahu Island Burial Council
MOA	Memorandum of Agreement	OIC	Officer-in-Charge
MOS	Minimum Operable Segment	OIL	Open Items List
MOT	Maintenance of Traffic	OIP	Order of Immediate Possession
MOU	Memorandum of Understanding	OJT	On-the-Job Training
MOW	Maintenance of Way	OMP	Operation and Maintenance Plan
MPD	Multiple Property Documentation	OMPO	Oahu Metropolitan Planning Organization
MPIS	Master Project Integrated Schedule	OP	Oversight Procedure
MPS	Master Project Schedule	OR&L	Oahu Railway & Land Co.
MPSS	Master Project Schedule Summary	ORCC	Operational Readiness Conformance Checklist
MPV	Multiple Purpose Vehicle	ORTP	Oahu Regional Transportation Plan
MPY	Makai Precast Yard	OSB	Operations and Servicing Building
MS4	Municipal Separate Storm Sewer System	OSC	On Site Coordinators
MSDS	Material Safety Data Sheet	OSHA	Occupational Safety and Health Administration
MSE	Mechanically Stabilized Earth	OSIT	On-Site Inspection Test
MSF	Maintenance and Storage Facility	OSM	Owner Supplied Materials
MSP	Maintenance Service Plan	OTDR	Optical Time Domain Reflectometer
MSTC	Middle Street Transit Center	OTR	One-Time Review
MSTCS	Middle Street Transit Center Station	OTS	Oahu Transit Services
MTM	Modern Track Machineries	OTW	Oceanic Time Warner
MV	Medium Voltage	OTWC	Oceanic Time Warner Cable
NAICS	North American Industry Classification System	OWG	Operation Working Group
NCE	Non-Conformance Evaluation	P&F	Planning and Facilities
NCR	Non-Conformance Report	P3	Public-Private Partnership
NDA	Non-disclosure Agreement	PA	Programmatic Agreement
NDC	Notice of Design Change	PAC-STEP	Pacific Summer Transportation Education Program
NEPA	National Environmental Policy Act	PAIS	Programmatic Agreement Implementation Schedule
NFPA	National Fire Protection Association	PARs	Preventative Actions
NGD	Negative Grounding Device	PAT	Production Acceptance Test
NGO	Non-governmental Organization	PB	Parsons Brinckerhoff, Inc.
NHL	National Historic Landmark	PC	Precast Concrete
NIC	Not in contract	PCCP	Portland Cement Concrete Pavement
NLT	No later than	PCI	Payment Card Industry
NOI	Notice of Intent	PCN	Potential Change Notice
NPDES	National Pollutant Discharge Elimination System	PCY	Precast Yard
NPS	National Park Service	PD	Position Description
NPW	Non-Potable Waterline	PDR	Preliminary Design Review
NR	National Register	PE	Preliminary Engineering
NRHP	National Register of Historic Places	PF	Power Frequency
NSM	Negotiation Strategy Memo	PFP	Project Financial Plan
NTE	Not to Exceed	PGC	Pacific Guardian Center
NTP	Notice to Proceed	PH	Potholing
NTS	Network Time Server	PHA	Preliminary Hazard Analysis
NUC	Next Unit of Computing	PHGTC	Pearl Highlands Parking Garage and Transit Center
O&M	Operations and Maintenance	PHL	Pearl Highlands Station
OahuMPO	Oahu Metropolitan Planning Organization	PHNB	Pearl Harbor Naval Base
OCC	Operations Control Center	PHPR	Pearl Highlands Park and Ride
OSCC	Oahu Community Correctional Center	PHPTR	Pearl Highlands Parking Structure, Transit Center and Ramp H2R1
OCCL	Office of Conservation and Coastal Lands	PHS	Pearl Harbor Station
OCD	Overhead Coiling Doors	PI	Public Involvement
OCIP	Owner-Controlled Insurance Program	PICM	Project Interface Control Manual
ODC	Other Direct Costs	PICO	Post Installation Check Out
OEQC	Office of Environmental Quality Control	PID	Parcel Identification Number
OH	Overhead	PIG	Permitted Interaction Group

PIM	Project Interface Manager	RCMP	Risk and Contingency Management Plan
PIP	Public Involvement Plan	RCP	Reinforced Concrete Pipe
PIS	Passenger Information Systems	RE	Resident Engineer
PLA	Project Labor Agreement	READ	Real Estate Acquisition Database
PLO	Priority-Listed Offerors	REC	Real Estate Consultant
PLR	Pearlridge Station	RFB	Request for Bids
PM	Project Managers	RFC	Request for Change
PMC	Project Management Consultant	RFCC	Request for Change from Contractor
PMIM	Project Management and Interface Management	RFCR	Request for Change by HART
PMO	Project Management Oversight	RFHB	Request for High Bids
PMOC	Project Management Oversight Contractor	RFI	Request for Information
PMP	Project Management Plan	RFID	Request for Interface Data
PMSC	Program Management Support Consultant	RFMP	Rail Fleet Management Plan
PNR	Park-and-Ride	RFP	Request for Proposals
POC	Project Oversight Committee	RFQ	Request for Qualifications
POP	Period of Performance	RFV	Request for Variance
POS	Point of Sales	RHB	Road and Highway Builders, LLC
PP	Pueo Plumbing	RIMS II	Regional Input-Output Modeling System
PPE	Personal Protective Equipment	RLB	Rider Levett Bucknall
PPEC	Pacific Power Electrical Contracting	RLS	Request for Legal Services
PRME	Keone'ae Station Park and Ride & Pouhala Station Makai Entrance	RMC	Rigid Metal Conduit
PRSR	Pre Revenue Service Report	RMS	Remote Monitoring System
PRTCC	Pre-revenue Testing Conform Checklist	RMTC	R.M. Towill Corporation
PS&E	Plans, Specifications & Estimates	RNR	Revise and Resubmit
PSC	Personal Services Contract	ROC	Rail Operations Center
PSG	Platform Screen Gate	ROD	Record of Decision
PSGS	Platform Screen Gate System	ROE	Right of Entry
PSIT	Pre-shipment Inspection Test	ROH	Revised Ordinances of Honolulu
PSS	Public Sector Solutions	ROM	Rough Order of Magnitude
PT	Post-tensioned	ROW	Right-of-Way
P-Tel	Passenger Assistance Telephone	RP	Recovery Plan
PTG	Parsons Transportation Group	RR	Risk Register
PUA	Possession and Use Agreements	RSD	Revenue Service Date
PUC	Public Utilities Commission	RST	Retail Sales Device Training
PUP	Property Utilization Plan	RTE	Request to Exceed Negotiation Strategy Memo Target
PV	Passenger Vehicle	RTM	Requirements Traceability Matrix
PWS	Passenger WiFi System	RTSA	Rapid Transit Stabilization Agreement
QA	Quality Assurance	RVB+A	Raul V. Bravo + Associates, Inc.
QAM	Quality Assurance Manager	RW	Roadway
QAP	Quality Assurance Plan	S&S	Safety and Security
QC	Quality Control	S1	Segment 1
QMP	Quality Management Plan	SA	Supplemental Agreement
QMS	Quality Management System	SAIS	Supplemental Archaeological Inventory Survey
QSA	Qualified Security Assessor	SAMP	System Assurance Monitoring Plan
QTF	Quality Task Force	SAT	System Acceptance Test
QTO	Quantity Takeoff	SAV	Shared Autonomous Vehicle
R&A	Readiness and Activation	SC	Substantial Completion
R&R	Revise & Re-submit	SCADA	Supervisory Control and Data Acquisition
RA	Risk Assessment	SCAP	Stream Channel Alteration Permit
RAC	Rail Activation Committee	SCC	Standard Cost Category
RACI	Responsible, Accountable, Consulted and Informed	SCH	Satellite City Hall
RAMP	Real Estate Acquisition Management Plan	SDC	Services During Construction
RAP	Rail Activation Plan	SF	Square Feet
RAT	Routine Acceptance Test	SHPD	State Historic Preservation Division
RC	Reinforced Concrete	SHPO	State Historic Preservation Officer

SIC	Sandwich Isle Communications	TCO	Temporary Certificate Occupancy
SIRP	Safety Incident Review Panel	TCP	Traffic Control Plan
SIT	System Integration Testing	TCS	Train Control System
SITP	System Integration and Test Plan	TDFM	Travel Demand Forecasting Model
SITR	Site Inspection and Test Report	TDM	Transportation Demand Management
SL	Street Light	TEL	Telephone System
SLAN	Secured Local Area Network	TES	Traction Electrification System
SLR	Sea Level Rise	T for C	Termination for Convenience
SM	Service Manager	TIA	Time Impact Analysis
SMA	Special Management Area	TIGER	Transportation Investment Generating Economic Recovery
SME	Subject Matter Expert	TIP	Transportation Improvement Program
SMMA	System Monitoring and Management Application	TIR	Total Incident Rate
SMS	Structural Monitoring Solutions	TMK	Tax Map Key
SOG	Slab on Grade	TMP	Traffic Management Plan
SOI	Secretary of the Interior	TO	Task Order
SON	Summary of Negotiations	TOC	The Outdoor Circle
SOP	Standard Operating Procedures	TOCC	Trial Operations Conformance Checklist
SOW	Scope of Work	TOD	Transit-Oriented Development
SP	Special Provisions	TP	Technical Provision
SQP	Supplemental Quality Plan	TP&R	Temporary Park & Ride
SS	System Site	TPAR	Transit Property Acquisition and Relocation
SSA	System Service Availability	TPBG	Traction Power Backup Generator
SSC	Safety Security Certification	TPBuGen	Traction Power Backup Generator
SSCP	Safety and Security Certification Plan	TPH	Total Petroleum Hydrocarbon
SSCVR	Safety and Security Certification Verification Report	TPO	Thermoplastic Polyolefin
SSCWG	Safety and Security Certification Working Group	TPSS	Traction Power Substation
SSI	Sensitive Security Information	TR	Trial Running
SSID	Service Set Identifier	TRCC	Trial Running Conformance Checklist
SSMP	Safety and Security Management Plan	TS	Traffic Signal
SSP	System Security Plan	TSA	Transportation Security Administration
SSRC	Safety and Security Review Committee	TSI	Transportation Safety Institute
SSSP	Site Safety Security Plan	TTCI	Transportation Technology Center, Inc.
STATCOM	Static Synchronous Compensator	TTSP	Temporary Traffic Signal Plan
STCC	Specification Testing Conformance Checklists	TUT	Temporary Utility Take
STCH	Sustainable Transportation Coalition of Hawai'i	TVA	Threat and Vulnerability Assessment
STG	Shimmick/Taylor/Granite, Joint Venture	TVM	Ticket Vending Machine
STP	System Test Procedure	TWF	Train Wash Facility
SUBD	Subdivision Branch	UCA	Utility Construction Agreement
SUE	Subsurface Utility Engineering	UFCRA	Utility Facilities Relocation and Cost Reimbursement Agreement
SuMo	Sustainable Mobility	UG	Underground
SuMoLab	Sustainable Mobility Lab	UH	University of Hawai'i
SWPPP	Storm Water Pollution Prevention Plan	UHPRB	UH West O'ahu Park and Ride & UHWO Campus Road "B"
SwRI	Southwest Research Institute	UHWO	University of Hawai'i West O'ahu
SY	Square Yard	UL	Underwriters Laboratories
T&C	Test & Commissioning	UOA	Use and Occupancy Agreement
T&M	Time and Material	UOM	Unit of Measurement
TAB	Testing and Balancing	UPS	Uninterruptible Power Supply
TAC	Transit Art Committee	URA	Uniform Relocation Assistance and Real Property Acquisition Policies Act
TAP	Track Allocation Procedure	USACE	U.S. Army Corps of Engineers
TARSP	Transit Agency Rail Safety Plan	USDOE	U.S. Department of Energy
TAT	Transient Accommodation Tax	USDOL	United States Department of Labor
TC	Train Control	USDOT	U.S. Department of Transportation
TCA	Temporary Configuration Change	USN	United States Navy
TCCR	Train Control and Communications Room	USPS	U.S. Postal Service
TCE	Temporary Construction Easement		

UST	Underground Storage Tank	WLO	West Loch
UTR	Under Technical Review	WOEDA	West Oahu Economic Development Association
VAR	Volt-Ampere Reactive	WOFH	West O'ahu/Farrington Highway
VCR	Vertical Conduit Raceway	WOSG	West O'ahu Station Group
VCT	Vinyl Composition Tile	WQC	Water Quality Certification
VE	Value Engineering	WSS	West Side Stations
VECP	Value Engineering Change Proposal	WSSG	West-side Station Group
VISTA	Volunteers in Service to America	WTB	Wheel Truing Building
VMS	Variable Message Sign	WTC	Waipahu Transit Center
VRC	Vertical Raceway Column	WTP	Wayside Test Procedure
VRCS	Voice Radio Communication System	WWB	Wastewater Branch
VRF	Variable Refrigerant Flow	WWPS	Wastewater pump station
VTP	Vehicle Test Procedure	WYL	West Yard Lead
WA	Work Area	YCB	Yard Control Bungalow
WB	West Bound	YKE	Yogi Kwong Engineers
WCS	Wireless Communication System	YOE	Year of Expenditure
WHS	Waipahu High School		
WKM	Walters Kimura Motoda, Inc.		
WL	West Loch		

Appendix B. Contract Status by Contract Packaging Plan (CPP) Number

CPP #	CPP Title	Original Contract Value	Change Orders	Current Contract Value	Incurred	% Exp.	Award Date	Original Completion Date	Revised Completion Date
DB-120	West Oahu/Farrington Hwy Guideway	482,430,201	185,351,685	667,781,886	667,781,886	100%	Nov-2009	Oct-2013	Dec-2018
DB-122	Westside Bird Control	0	0	0	0	0%	TBD	TBD	TBD
DB-172	DR Horton Parking / Interim PnR Ho'opili	0	0	0	0	0%	TBD	TBD	TBD
DB-200	Maintenance & Storage Facility	195,258,000	86,517,032	281,775,032	281,775,032	100%	Jun-2011	Dec-2014	Jul-2016
DB-272	Waipahu Makai Entrance	0	0	0	0	0%	TBD	TBD	TBD
DB-275	Pearl Highlands Garage, Bus Terminal, H2 Ramp	0	0	0	0	0%	TBD	TBD	TBD
DB-320	Kamehameha Hwy Guideway	372,150,000	31,405,774	403,555,774	403,555,774	100%	Jun-2011	Oct-2014	Dec-2018
DB-450	Airport Section Guideway/Stations	874,750,000	11,559,800	886,309,800	767,138,794	87%	Sep-2016	May-2021	Dec-2021
DB-550	City Center Guideway and Station (CCGS)	0	0	0	0	0%	TBD	TBD	TBD
DBB-121	WOFM Median Landscaping	0	0	0	0	0%	TBD	TBD	TBD
DBB-171	West Oahu Station Group	56,088,470	29,429,212	85,517,682	85,173,420	100%	Jul-2015	Mar-2018	Mar-2019
DBB-271	Farrington Highway Station Group	78,999,000	37,513,971	116,512,971	116,199,078	100%	Jun-2015	Jan-2018	Jan-2019
DBB-371	Kamehameha Hwy Station Group	115,805,845	15,743,885	131,549,730	130,158,968	99%	Jan-2016	May-2019	Apr-2020
DBB-385	Ramp H2R2	5,203,646	332,250	5,535,896	5,535,896	100%	May-2015	Oct-2016	Nov-2017
DBB-505	Airport Section Utilities Construction	27,993,290	726,200	28,719,489	28,719,489	100%	Jun-2014	Feb-2016	Oct-2016
DBB-511	City Center Utilities Relocation Construction	400,000,000	0	400,000,000	96,927,518	24%	May-2018	May-2020	May-2022
DBB-525	Airport Section Guideway 7-Pier	3,973,000	54,843	4,027,843	4,027,843	100%	Sep-2014	Feb-2015	Apr-2015
DBB-551	Advanced Guideway Foundations in Kaka'ako	0	0	0	0	0%	TBD	TBD	TBD
DBB-600	Park-and-ride Lots Construction	0	0	0	0	0%	TBD	TBD	TBD
DBB-602	UHWO Temp PnR and Campus Rd B	11,589,300	1,955,559	13,544,859	13,544,859	100%	Dec-2017	Jul-2019	Jan-2020
DBB-701	Kamehameha Highway Resurfacing	25,989,989	5,539,436	31,529,425	29,906,922	95%	Jul-2018	Sep-2019	Jun-2021
DBB-921	WiFi Passenger Vehicles	1,219,858	0	1,219,858	27,687	2%	Jun-2020	Sep-2022	Sep-2022
DBOM-920	Core Systems Design Build O/M	573,782,793	212,322,937	786,105,730	500,781,143	64%	Nov-2011	Mar-2019	Jan-2025
FD-140	West Oahu Station Group	7,789,000	6,927,995	14,716,995	14,527,517	99%	Jun-2012	Nov-2016	May-2020
FD-145	Westside Design Closeout	0	0	0	0	0%	TBD	TBD	TBD
FD-240	Farrington Highway Stations Group	9,300,696	7,997,120	17,297,816	17,019,612	98%	Jan-2011	Nov-2016	Mar-2020
FD-340	Kamehameha Hwy Station Group	8,702,592	6,381,037	15,083,629	14,136,432	94%	Nov-2012	Jun-2017	Nov-2019
FD-430	Airport Sect. Guideway/Util	38,840,960	4,111,440	42,952,400	42,371,374	99%	Dec-2011	Aug-2013	Jun-2017
FD-440	Airport Station Group	10,177,365	(117,545)	10,059,820	10,059,820	100%	Nov-2012	Jan-2014	Jul-2015
FD-530	City Center Guideway/Util	43,948,220	23,853,824	67,802,044	64,644,345	95%	Jul-2012	Mar-2014	Dec-2023
FD-550	Dillingham and Kaka'ako Station Group	18,321,918	(5,980,353)	12,341,565	12,341,535	100%	Aug-2013	Sep-2014	Aug-2016
FD-600	PNR Lots Final Design	0	0	0	0	0%	TBD	TBD	TBD
FD-700	Design Services for 138kV Util. Reloc. at KHG	8,766,327	0	8,766,327	5,727,159	65%	Aug-2018	Nov-2021	Nov-2021
FD-701	KH Civil Design	60,000	0	60,000	60,000	100%	Jan-2018	Jan-2019	Jan-2019
MI-900	Fare Collection DFI	15,464,198	1,197,745	16,661,943	10,060,378	60%	Mar-2016	Jan-2029	Jan-2029
MI-930	Elevators & Escalators Install/Maint	52,652,738	7,905,131	60,557,869	32,105,039	53%	Jul-2013	May-2018	Dec-2023
MI-940	Core Systems Backup Generators	8,965,000	75,000	9,040,000	7,661,500	85%	Dec-2019	Apr-2021	Feb-2021
MI-950	Volt Ampere Reactive Equipment	0	0	0	0	0%	TBD	TBD	TBD
MM-945	On-Call Construction I	1,000,000	1,000,000	2,000,000	1,999,983	100%	Aug-2014	Jul-2019	Dec-2016
MM-947	On-Call Construction II	7,500,000	0	7,500,000	7,495,425	100%	May-2015	May-2020	May-2020
MM-948	On-Call Construction III	20,000,000	6,000,000	26,000,000	25,873,438	100%	May-2016	May-2023	May-2023
MM-949	On-Call Construction IV	46,000,000	18,100,000	64,100,000	51,560,917	80%	Jan-2018	Nov-2024	Nov-2024

CPP #	CPP Title	Original Contract Value	Change Orders	Current Contract Value	Incurred	% Exp.	Award Date	Original Completion Date	Revised Completion Date
MM-290	Construction Engrg & Insp CEI West	54,232,480	38,900,000	93,132,480	92,622,739	100%	Jan-2014	Jan-2020	Dec-2020
MM-595	Construction Engrg & Insp CEI East I	63,083,417	(50,372,051)	12,711,366	12,711,366	100%	Jan-2014	Jan-2019	Jan-2016
MM-596	Construction Engrg & Insp CEI East II	55,036,130	47,000,000	102,036,130	94,630,330	93%	Sep-2015	Dec-2019	Dec-2021
MM-901	Program Mgt Support Conslt II	33,376,897	16,359,765	49,736,662	49,736,662	100%	Feb-2012	Mar-2015	Mar-2017
MM-902	Program Mgt Support Conslt III	63,522,953	0	63,522,953	51,428,942	81%	Jan-2017	Dec-2022	Dec-2022
MM-905	MM-905 Gen Engrg Conslt EIS/PE	0	75,995,982	75,995,982	75,995,982	100%	Aug-2007	Feb-2010	Feb-2011
MM-910	MM-910 Gen Engrg Conslt FD-Construct	150,226,265	0	150,226,265	150,226,265	100%	Jun-2011	Dec-2014	Dec-2014
MM-913	MM-913 Gen Engrg Recomplete	46,143,277	38,585,498	84,728,775	76,402,891	90%	Dec-2013	Apr-2019	Apr-2022
MM-915	HDOT Traffic Mgmt. Consult.	9,000,000	5,010,000	14,010,000	6,972,531	50%	Jun-2012	Jun-2017	Jun-2019
MM-920	HDOT Coordination Conslt WOFH	3,000,000	6,800,000	9,800,000	9,617,530	98%	Jun-2011	Jun-2016	Dec-2018
MM-921	HDOT Coordination Conslt KHG	16,138,390	(2,424,773)	13,713,617	8,790,562	64%	Jun-2012	Feb-2025	Feb-2025
MM-922	HDOT Coordination Conslt. East	17,560,000	(7,631,360)	9,928,640	7,004,616	71%	Jun-2012	Dec-2024	Dec-2024
MM-925	HDOT - WOFH/KHG Imprvr Agreements	550,000	2,865,633	3,415,633	3,233,025	95%	Oct-2010	Oct-2019	Oct-2019
MM-930	HDOT State SOA Manager & Consultant	1,272,400	(281,963)	990,437	990,437	100%	Feb-2012	Aug-2017	Aug-2017
MM-940	Kako'o Consultant I	1,000,000	(3,106)	996,894	531,609	53%	Mar-2012	Mar-2022	Mar-2022
MM-941	Kako'o Consultant II	200,000	400,000	600,000	475,000	79%	Dec-2015	Jan-2018	Jan-2020
MM-946	On-Call Hazmat Assessment Consultant	12,006,227	2,075,000	14,081,227	9,401,836	67%	Feb-2018	Feb-2023	Feb-2023
MM-950	OCIP Consultant I	1,250,000	0	1,250,000	1,250,000	100%	May-2012	Jun-2017	May-2017
MM-951	Owner-Controlled Insurance Program	41,000,000	11,094,556	52,094,556	52,094,556	100%	Apr-2014	Apr-2020	Mar-2019
MM-953	OCIP Consultant II	415,000	405,000	820,000	588,043	72%	May-2017	May-2020	May-2020
MM-960	Archeological & Cultural Monitoring	2,489,748	445,271	2,935,019	2,935,019	100%	Jan-2014	Jan-2019	Jan-2019
MM-962	Core Systems Support	43,988,989	33,784,957	77,773,946	59,764,064	77%	Feb-2014	Sep-2019	Sep-2022
MM-964	Safety and Security Consultant	21,699,279	5,549,188	27,248,468	21,242,305	78%	Apr-2014	Jan-2017	Jan-2019
MM-970	Fare Collection Consultant	1,178,300	640,620	1,818,920	1,439,111	79%	Sep-2015	Dec-2019	Dec-2019
MM-975	LEED Commissioning Services for MSF	278,630	7,845	286,475	286,475	100%	Oct-2010	Jan-2016	Aug-2017
PA-102	Programmatic Agreement HPC	667,275	(175,947)	491,329	275,087	56%	Jul-2013	Jan-2019	Jan-2019
ART	ART Contracts	2,139,500	10,000	2,149,500	903,800	42%	Jan-2016	Jul-2019	Jul-2019
MM-935	Real Estate Consultant	3,000,000	5,077,665	8,077,665	7,504,910	93%	Mar-2012	Mar-2017	Mar-2017
MM-936	Real Estate Consultant II	8,190,000	0	8,190,000	7,941,164	97%	Sep-2016	Sep-2020	Sep-2020
MM-937	Real Estate Consultant - Maps/Surv.	2,998,000	1,130,000	4,128,000	3,720,772	90%	May-2014	May-2017	May-2019
MM-980	Claims & Litigation Support	1,915,576	187,316	2,102,892	1,264,079	60%	N/A	N/A	N/A
MM-981	Complex Real Property Nego. Lit. Sup	600,000	2,241	602,241	602,241	100%	Sep-2016	Sep-2018	Sep-2018
MM-982	On Call Appraiser	4,000,000	(762,168)	3,237,832	752,583	23%	Jun-2016	Dec-2022	Dec-2022
MM-983	Land Court Petition Services	1,200,000	0	1,200,000	120,614	10%	Oct-2016	Oct-2019	Oct-2019
MM-985	On Call Appraisers II	1,261,308	0	1,261,308	354,144	28%	Apr-2017	Apr-2022	Apr-2022
MM-986	Real Estate Legal Services	5,800,000	9,738,163	15,538,163	12,101,777	78%	Oct-2017	Dec-2022	Dec-2022
MM-990	Design Review Consultant	4,027,781	0	4,027,781	1,135,774	28%	Mar-2018	Dec-2024	Dec-2024
MM-991	P3 Financial Legal Services	4,282,333	7,029,283	11,311,616	11,311,616	100%	Oct-2018	TBD	TBD
UTIL	Utility Contracts and Agreements	151,040,711	51,770,475	202,811,186	89,079,361	44%	Dec-2009	Dec-2018	Jun-2018
HART-201	HART Expenses & ODCs	15,055,203	28,539,755	43,594,958	35,528,044	82%	N/A	N/A	N/A
HART-202	Precast Yard Agreement	56,382,386	(24,200,793)	32,181,593	12,101,157	38%	N/A	N/A	N/A
		4,423,930,862	999,456,028	5,423,386,890	4,423,967,799				

Note: HART-202 and DB-550 have been reconciled from the previous month. Incurred amounts for Non-Contractual Expenses (i.e. ROW transactions, debt financing costs, and City/HART contract packages) are tracked in the below table and are also included in the total incurred amount in the Project Costs by SCC – Level 2 table in Section 2.13.

Non-Contractual Expenses (data as of Jun 30, 2021)

CPP #	CPP Title	Incurred
ROW	Real Estate Docs/ 3P Agreements	205,432,096
CCH-100	HART/CITY CCH	14,925,228
CCH-101	HART/ City Dept of BFS	0
CCH-102	HART/ City DDC Land Division	173,182
CCH-107	HART/ City Corporation Counsel (COR)	3,088,688
CCH-108	HART / Board of Water Supply (BWS)	928,325
HART-200	HART - Labor	92,730,550
HART-201	HART Expenses & ODCs	56,769,469
OTHER	Debt Financing Costs	77,133,636
TOTAL		451,181,173

Source: HART Project Controls.

Appendix C. Executed Inter-Governmental Agreements

While these parcels may be accessible at this time for construction, further documentation may also be required to complete the acquisition.

Executed Inter-Governmental Agreements					
Agency	Agreements	Target	Section	Construction Right of Entry (CROE) Obtained	Notes/Remarks
CITY AGREEMENTS					
BFS (205A)	Jurisdictional transfer from DFM to HART of Kamehameha Hwy/Makalapa Manor		Airport	Yes	Jurisdictional Transfer from BFS Letter dated 8/26/11.
DPR - Dept. of Parks & Recreation (119)	Construction consent to construct for MSF drainage		WOFH	Yes	
BFS / DFM (Dept. of Facility & Maintenance) (437C)	Jurisdictional Transfer (Awa Triangle, N. Nimitz & Awa St.)		City Center		Jurisdictional transfer completed July 9, 2018.
STATE AGREEMENTS					
DLNR/C&C Wastewater Div (437B)	Construction Right of Entry		City Center	Yes	Construction ROE obtained from DLNR 10/21/17. Subdivision submitted with DPP 1/1/18.
UH – University of Hawai‘i	Master Agreement is not needed as the ROE for right to access and construct will be executed separately by each campus.		WOFH, KHG, City Center	Will be executed by each campus	Construction is not impacted as the ROE for right to access and construct will be executed by each campus.
UH	Pre-Construction Right of Entry and Amendment		WOFH, KHG, City Center	Yes	
UH - West O‘ahu (UHWO) (125)	Construction Right of Entry for Station, Temporary Park & Ride, and Amendment for Construction of Road B		WOFH	Yes	
UH - Leeward Community College (LCC) (122)	Construction Right of Entry for Guideway		WOFH	Yes	
UH – LCC (122)	Construction Right of Entry for Station		WOFH	Yes	
UH - Urban Gardens (201A)	Construction Right of Entry		KHG	Yes	
DLNR – Dept. of Land and Natural Resources (124)	Kapolei Construction Right of Entry for overhead guideway and for park and ride facility		WOFH	Yes	CROE has been granted once a year by letter. Working on permanent Easement with DLNR. Currently with DPP for subdivision.
DLNR (320)	Keahi Lagoon Construction Right of Entry		Airport	Yes	
DOE – Dept. of Education Waipahu H.S. (117, 118)	Master/Construction Agreement		WOFH	Yes	
DOE/DLNR for Waipahu H.S. (118)	Construction Right of Entry		WOFH	Yes	Executed by DLNR with DOE concurrence.
Aloha Stadium / Dept of Accounting & General Services (DAGS) (207)	MOU for guideway & station		KHG	Yes	
Aloha Stadium/DAGS	Construction Right of Entry for guideway		KHG	Yes	
Aloha Stadium/DAGS	Construction Right of Entry for station park and ride		KHG	Yes	
HDOT(H) – Dept. of Transportation Highways (100)	Master Agreement for HDOT Highways for WOFH		WOFH	Yes	

Executed Inter-Governmental Agreements					
Agency	Agreements	Target	Section	Construction Right of Entry (CROE) Obtained	Notes/Remarks
HDOT(H) and (A) – Dept. of Transportation Highways & Airports	Master Agreement for HDOT Highways and Airports, for KHG, Airport and City Center Sections		KHG, Airport, City Center	Yes	
HDOT(H)	JU&O Sub-agreement		WOFH	Yes	
HDOT(H)	JU&O Sub-agreement		KHG	Yes	
HDOT(H)	JU&O Sub-agreement		Airport	Yes	
HDOT (A) - Dept. of Transportation Airports	Airport Special Provisions for Right of Entry		Airport	Yes	
HDOT(A)	JU&O Sub-agreement for Airport Division parcels		Airport	Yes	
HDOT(A) (301A)	Easement document for Airport Division parcel (Main guideway easement)		Airport	Yes	Ongoing intra-agency coordination. Construction is not impacted as the Special Provisions and the JU&O for right to access and construct is executed.
HDOT(H) (100,100-A, 304, 400-A, 400-B)	JU&O Sub-agreement		City Center	Yes	
DHHL - Dept. of Hawaiian Home Lands (Exchange w/ Varona Village) (115A)	MOA, License/ROE from DHHL, City Council Resolution		WOFH, MSF	Yes	DLNR approves withdraw from GEO 571 7/14/17. DFM accepts road widening and now City jurisdiction.
OCCC - Dept. of Public Safety, Oahu Community Correctional Center (400A)	MOU		City Center	Yes	
OCCC/DLNR	Construction Right of Entry		City Center	Yes	
DLNR/OCCC	Letter of Responsibility from City-DFM/Road		City Center	Yes	
DFM (423A)	Work Permit (Kapalama Stream for Street, Bridge, and Guideway Improvements)		City Center	Yes	DFM/DLM granted entry.
HCDA -HI Community Development Authority (444A, 450, 463B, E-5-B, 475)	Pre-construction Right of Entry		City Center	Yes, effective upon request	Verbal approval granted by the HCDA Board in 6/2016.
FEDERAL AGREEMENTS					
U.S. Navy (116A)	Grant of Easements for Maintenance & Storage Facility (MSF)/Rail Operations Center (ROC) offsite drainage and sewer easements		WOFH	Yes	Per Letter #N62478-12-RP00011 dated 6/28/12 confirming easement from Navy.
U.S. Navy (300)	Licenses/Construction Right of Entry		WOFH, KHG, Airport	Yes	6/22/15 – License was extended to 2025. All utility work needs to be completed by then.
U.S. Navy	Easement Agreements		WOFH, KHG, Airport	Yes	Grant of Easement executed. Grant of Easement 8/22/16.
U.S. Navy	Pearl Harbor Station Acquisition of Fee Transfer		Airport	Yes	Quitclaim deed executed 2/25/16.
U.S. Post Office (USPS) (301)	Honolulu Processing Center acquisition		Airport	Yes	Acquisition completed in regular system. Need to process through Land Court to complete process. Funds already paid. USPS Land Court share to complete process is in escrow.
OTHER AGREEMENTS					

Executed Inter-Governmental Agreements					
Agency	Agreements	Target	Section	Construction Right of Entry (CROE) Obtained	Notes/Remarks
D.R. Horton	Construction Right of Entry - D.R. Horton & HECO		WOFH	Yes	Executed 5/11/2018.

Appendix D. Utility Agreements

Utility Agreements Status Matrix										
Utility Owner	Status	WOFH		KHG		Airport		City Center		
		ESA	UCA	ESA	UCA	UCA	COMBINED ESA		UCA	
AT&T (Corporation)	Executed	05/11/11	12/20/11	5/18/12	Including with ESA	Not Required	12/26/13		05/03/17	
	NTP	05/12/11	12/21/11							
	Amd 01	07/01/11	HRS Ch. 104				11/22/16			
AT&T Corp. (Public Sector)	Executed			12/26/13		08/27/18	12/26/13			
	NTP									
Chevron	Executed	12/04/09		11/04/11						
	NTP	12/22/09		11/15/11						
	Amd 01	07/01/11								
Hawaiian Telcom	Executed	05/20/10	11/17/14	05/10/12	12/31/14	05/28/15	09/27/13		04/06/17	
	NTP	06/14/10	11/18/14							
	Amd 01	07/01/11		04/13/15		05/11/17	11/19/18		09/20/19	
	Amd 02	05/10/12					Received HTI request for additional funding			
HECO		Design Services	Construction Services	Design Services	Construction Services	Design Services	Construction Services	Design Services	Construction Services	
	Executed	11/20/13	11/29/13	11/20/13	11/29/13	11/20/13		11/25/13		
	NTP	11/20/13	11/29/13	11/20/13	11/29/13	11/20/13		11/25/13		
	Executed					05/16/18				
	Change Order 01		06/30/17	11/13/19	02/22/18	Working on Change Order 01				
	Change Order 02		02/22/18		11/13/19					
	Memorandums of Understanding	08/07/14 – Construction Drawings								
		05/01/15 – Access								
		05/15/15 – Derrick Truck								
		06/23/15 – Master Agreement								
		06/09/15 – MSF Advanced Construction								
		09/16/15 – Right of Entry								
		10/12/15 – Clearance (West)					11/10/15 – Dillingham Blvd Materials			
		07/13/16 – KHG Vertical Clearance								
		Power Quality MOU (Working on MOU)								
		08/16/18 - Airport Clearance Agreement								
		05/15/19 – Vehicle Storage MOU								
		08/13/19 - Airport Energization MOU								
Charter Communications/ Spectrum Oceanic LLC	Executed	12/08/09	12/21/11	01/09/12	06/02/14	12/19/14	04/03/13		9/22/16	
	NTP	12/22/09					04/04/13		9/30/16	
	Amd 01	07/01/11	02/27/14		HRS Ch. 104	07/06/18			10/20/20	
	Amd 02	10/07/13	HRS Ch. 104							
Pacific Lightnet/ Wavecom	Executed	04/28/10	03/12/12	02/15/12						
	NTP	04/29/10	03/13/12	02/16/12						
	Amd 01	07/01/11	HRS Ch. 104							
Sandwich Isle Communications	Executed	05/20/10		04/20/12						
	NTP	06/08/10								
	Amd 01	07/01/11								
Hawai'i GAS	Executed	12/18/09	06/30/11	06/01/12	04/14/14	08/19/14	09/27/13		05/08/15	
	NTP	12/22/09	07/12/11			08/20/14			05/11/15	
	Amd 01	07/01/11	10/17/14		08/28/14	08/31/17			10/24/17	
	Amd 02		05/09/16		10/23/15	11/03/19			Amd 02 sent for HI Gas signature.	

Utility Agreements Status Matrix									
Utility Owner	Status	WOFH		KHG		Airport		City Center	
		ESA	UCA	ESA	UCA	UCA	COMBINED ESA	UCA	
								Execute Amd 02	
	Amd 03				HRS Ch. 104				
Level 3/TW Telecom	Executed	12/02/09		02/14/12	Oceanic to relocate for TW Telecom		10/11/12	Oceanic to relocate for TW Telecom	
	NTP	12/22/09		02/16/12					
	Amd 01	07/01/11							
Tesoro	Executed			02/15/12	09/12/13		08/27/13		
	NTP			02/16/12			09/03/13		
	Amd 01				09/12/14				
	Amd 02				05/13/15				
	Amd 03				HRS Ch. 104				
Legend		= Action this month	COR = Corporation Counsel			UCA = Utility Construction Agreement			
		= Not applicable	ESA = Engineering Services Agreement			UFRCA = Combined Engineering and Construction Utility Agreement			

Appendix E. Project Map

